Surveillance Enforcement and Billing Sewer Maintenance 1216 W. Nichols Springfield, MO 65802



Date:	9-30-97 Fax #: 314 692-8810
To:	BRY AN GATUN, TERRACON
	KARER CHANDIER
Messa   S   G11)	ge: BRIAN, THIS IS AN UPDATE OF THE MEMO SENT CHERUL, IF YOU HAVE ANY QUESTIONS, DE ME A CALL.
Pages	to follow: 1
Aller	ough 9.29.97)

Surveillance Enforcement and Billing Sewer Maintenance 1216 W. Nichols Springfield, MO 65802



	Λ		·
Message:	UPDATE OF MEM	O ABOUT TOTAL	5797701
From:	ICARGN CHANDAN	,	
To:	CHERRYL HAINES, T.	ERRA CON	
	10-17-97		1-8810

Surveillance Enforcement and Billing Sewer Maintenance 1216 W. Nichols Springfield, MO 65802

Phone: 417/864-1923 Fax:

417/864-1918



Date:	9-30-9-	7	Fax #:	<u> 573-6</u>	526-33	<u>50</u>	
To:	ACAN PEIN	KEMEY ER	, MOA	UR			
From:	ICAREN (	HAN DEK	) =				
Messa 	ge: UPDA1	EOFN	nemo	ABOUT	TOTAL	STATTE	W
	to sollow: 4	29-97					

Surveillance Enforcement and Billing Sewer Maintenance 1216 W. Nichols Springfield, MO 65802



	to sollow:	
Mo AA	uno: IIPDATE DE MEN	NO ABOUT TOTAL STATION
From:	KARGA CHANDUR	
То:	ALAW REINKEMEYER,	MONR
Date:	10-17-97	Fax #: <u>573-526-3350</u>

Surveillance Enforcement and Billing Sewer Maintenance 1216 W. Nichols Springfield, MO 65802

(Though 9-29.97



Date:	9-30-91	Fax #:	831-6258	
Го:	128 SCHAEFER,	SUNBELT		
From:	KAREN CHANO	E.		
Messa	ge: <u>UPDATE</u> OF N	NEMO ABO	OUT TOTAL STATI	'ON
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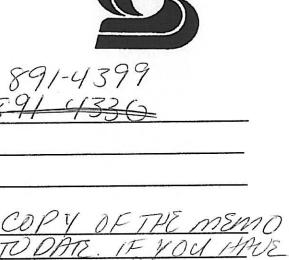
Surveillance Enforcement and Billing Sewer Maintenance 1216 W. Nichols Springfield, MO 65802



Date: _	10-17-9	7 Fa	ox #: <u>831</u>	-6258	
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Page 1	to 1080m: 8		·		

Surveillance Enforcement and Billing Sewer Maintenance 1216 W. Nichols Springfield, MO 65802

Phone: 417/864-1923 Fax: 417/864-1918



To: <u>WENDELL HAU</u> From: <u>ONR</u>

Message: WEN DALL THIS IS THE COPY OF THE MEMO ABOUT THE TOTAL STATION UP TO DATE. IF YOU HAVE ANY QUESTIONS, CMC ME (D) 864-1489,

Pages to follow: 35

(meno through 10 2-97)

Surveillance Enforcement and Billing Sewer Maintenance 1216 W. Nichols Springfield, MO 65802



Date: _	10-17-97	_ Fax #: <u>891-4399</u>
To:	WENDALL HMLL	
From:	DNR	
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Pages	to follow: 5	

Surveillance Enforcement and Billing Sewer Maintenance 1216 W. Nichols Springfield, MO 65802



	Date: _	9-26-97	Fax #: _	573-526	3356	
		ALAN REINKEMEYER	, MO. DE	PT. OF NAT	TURIA RESOURCE	25
	From:	KAREW CHAWOOR				
3	THE	e: ALAN, THIS IS A TOTAL STATION NO QUESTIONS, GIVE N	COPY C THE E A CA	DE THE ME PRESENT U Q 417	MO ABOUT T. 1F YOU HAU - 864-1489	<u> </u>
	Pages	to follow: 3/		*		
(mes	no t	trough hiday mor	ning 9.	120/97)		

Surveillance Enforcement and Billing Sewer Maintenance 1216 W. Nichols Springfield, MO 65802

Phone: 417/864-1923

Fax: 417/864-1918



Date: 4-26-91 Fax #: 831-6258
TO: USE SCHAEFER, SUNBELT
From: KAREN CHANOGE
Message: 188 THIS IS A COPY OF THE MEMO HISOUT
Message: LEE THIS IS A COPY OF THE MEMO ABOUT THE TOTAL SERVICE STATION ON SUNSHINE, IF YOU HALE
ANY QUESTIONS, BINE ME A CALL @ 864-1489
Pages to follow: 31

(memoupto Ludayaflernoon 9-26-97)

Surveillance Enforcement and Billing Sewer Maintenance 1216 W. Nichols Springfield, MO 65802



Date: _	9-26-97 Fox #: 314 692.8810
To:	CHERVL HAINES, TERRACON
	KANGN CHANDER
Messag	ge: CHERYL, THIS IS A COPY OF THE MEMO (TOTHE
PRES	SPINI) ABOUT THE TOTAL STATION ON SUIDSHINE ST.
IF	YOU HAVE ANY QUESTIONS, GIVE ME A CALL AT
	417-81-11-1189
Pages	to follow: 36
	The real Iduraday 9/25)

new job titles and deleting 14 existing job titles; providing pay adjustments and benefit changes for employees on the PAT, CTL, LES, FPS and DHS pay schedules as contained herein; by creating a new Information Systems Department of the City; and declaring an emergency. This bill was amended and approved with one abstention.

CONSENT AGENDA - ONE READING BILLS. CITIZENS MAY REMOVE FROM CONSENT AGENDA AND SPEAK. MAY BE VOTED ON. These bills were approved at the beginning of the agenda.

COUNCIL BILL 99-235. (Vanaman)
A resolution approving the plans, specifications and the bid of Hartman and Company, Inc., for construction of Grant Beach Park Box Repair.

COUNCIL BILL 99-236. (Manley)
A resolution approving the plans, specifications and the bid of Hartman and
Company, Inc., for the construction of Drainage Improvements, National Avenue
- Grand to Madison.

COUNCIL BILL 99-237. (Manley)
A resolution approving the plans, specifications and the bid of D. Ferguson Construction, Inc., for construction of Sidewalk Reconstruction - Phase II (1/4-Cent Sales Tax).

CONSENT AGENDA - SECOND READING BILLS. CITIZENS HAVE SPOKEN. MAY BE VOTED ON.

AMENDED COUNCIL BILL 99-209. (Gannaway)

Amending the Springfield City Code to make it unlawful for any person to engage in business and commercial activities within the public parks without the written permission of the Springfield/Greene County Park Board.

COUNCIL BILL 99-211. (Gannaway)
Authorizing the City Manager to enter into an agreement with the Springfield
Convention and Visitors Bureau, Inc. to spend \$1,428,745 during the year 19992000 to provide a program to encourage tourism and conventions in the City.

COUNCIL BILL 99-215. (Rhodes)
Authorizing a license agreement with Avanti Petroleum, Inc. for the installation of groundwater monitoring wells within the public right-of-way at 1620 East Sunshine for the purpose of determining possible pollution from underground gasoline storage tanks.

COUNCIL BILL 99-216. (Manley)

1620 E SUNSHINE

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AVANTI PETROLEUM, INC. •	DATE	05/01/1999		Nn	



FEB 23 1999

Avanti Petroleum, Inc. 3033 East First Avenue Suite 202 Denver, CO 80206 (303) 320-0303 Bus. (303) 320-1311 Fax

February 17, 1999

Karen Chandler, Industrial Pretreatment Program City of Springfield, Department of Public Works 840 Boonville Avenue Springfield, Missouri 65801-8368

RE:

Location #6215 1620 E. Sunshine Springfield, MO

Dear Ms. Chandler:

We are in receipt of your invoice in the amount of \$3,646.52 for "Costs to the City of Springfield" from September 7, 1997 to March 19, 1998. In order for us to process for payment, we would appreciate a more detailed analysis of the items performed by the individuals.

We are somewhat in question as to how Mr. Chandler spent 86 hours directly attributable to this location. In addition, we also need an explanation as to how 752 miles were attributed to this project. We do understand that there may be some costs reimbursable to the City of Springfield. However, we will need an explicit billing which shows what these individuals were doing and how it was directly attributable to the Sunshine project and not related to other City activities.

We await your response accordingly.

Respectfully,

Gárry V. Woodman, A.I.A.

Director of Environmental and Development

woodman/ld

GVW:ld

Attachment

Cc: Joletta Golik/Terracon

### Costs to the City of Springfield September 7, 1997 to March 19, 1998

Water and Sewer Costs	:
-----------------------	---

41. 450 •	\$ 908.39
Water - 450 ccf	<u> 382.50</u>
Sewer - 450 ccf (a) .85/ccf	\$1,290.89

#### Personnel Costs:

	Burden Rate	Overtime Rate	Time at Site (hours)	
Chandler	16.50	<b>G</b> /	72.00	\$1188.00
Chandier	10.50	24.75	14.00	346.50
Lyman	21.11		7.50	158.33
Lyman		31.67	8.00	253.36
Pabst	19.32	E0E.0.0	9.50	183.54
Corson	19.32		5.50	106.26
Jones	8.25		1.00	<u>8.25</u>
3(/110.)	···			\$2244.24

#### **Equipment Costs**

	Cost/Mile	Mileage	
4106 (Ford Pickup)	\$.072	752	\$54.11
4126 (Chevy Pickup)	\$.066	16	1.06
4127 (Chevy Pickup)		8	.38
Transferred interests			\$55.58

# Miscellaneous Lumber, Galvanized Nails, and Handsaw

used to construct curbs over firehose

TOTAL COST \$3,646.52

\$55.84

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3. Article Addressed to:  M. GMAY WOODMAN  DIRECTOR OF ENU & DEU  AUAUTI PETPOLLUMINE  3033 EAST FIRST AVAUE  SUITE PO SU) 206  5. Received By: (Print Name)  6. Signature: (Addressee or Agent)  X SPManuel	7. Date of D 3-1 8. Addresse	Type  ed
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· .	€						€	ie .		Z 159 668 751 US Postal Service Receipt for Certified Mail No Insurance Coverage Provided. Do not use for International Mail (See reverse) Sent to





February 26, 1999

Mr. Garry V. Woodman Director of Environmental & Development Avanti Petroleum, Inc. 3033 East First Avenue Suite 202 Denver, CO 80206

Certified No. Z 159 668 751

Dear Mr. Woodman:

I'm enclosing a copy of the memo which details the City of Springfield's detection and monitoring activities of the hydrocarbon product which entered the sanitary sewer from the Total Station at 1620 E. Sunshine. I'm also enclosing copies of bills which the City paid City Utilities for water, reports which explain the cost/mile of gasoline for the vehicles used and copies of the bills from the lumberyard where supplies were purchased to construct curbs over the fire hose.

If you have any questions, please don't hesitate to call me at 864-1489.

Yours truly,

Trandles Karen Chandler

Industrial Pretreatment Program

Randy Lyman, Pretreatment Coordinator cc:

File

TOTAL TIME	85 hrs 55min	15 hrs 30 min	9 hrs 30 min	5 hrs 25 min	1 hour
03/19/98	40 min				
. 02/12/98	25 min				
02/11/98	30 min				100
01/13/98					

SENDER:  Complete items 1 and/or 2 for additional services.  Complete items 3, 4a, and 4b.  Print your name and address on the reverse of this form so that very card to you.  Attach this form to the front of the mailpiece, or on the back if spapermit.  Write "Return Receipt Requested" on the mailpiece below the and telliprered.  3. Article Addressed to:	ace does not	I also wish to receive the following services (for an extra fee):  1.  Addressee's Address 2.  Restricted Delivery Consult postmaster for fee.
JEFFREY BROWN AVANTI PETROLEUM 1620 E. SUNSHINE. SPRINGALLO MO 65804	4a. Article N 2 16 4b. Service Registere Express Return Rec 7. Date of De	59 668 499  Type ed
5. Received By: (Print Name)  6. Signature: (Andressee or Agent)  X  PS Form 3811, December 1994	and fee is	e's Address Only if requested paid)  Domestic Return Receipt

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February 11, 1999

Mr. Jeffrey Brown, Mgr. Avanti Petroleum 1620 E Sunshine Springfield, MO 65804

Certified No. Z 159 668 499

Dear Mr. Brown:

On Sunday, September 7, 1997, personnel from the City of Springfield's Public Works Department received a report of flammable hydrocarbon products entering the City's sanitary sewer system in the 1600 block of south Fremont. The hydrocarbon products were traced back to the Total Food Store at 1620 E. Sunshine. The tanks and fuel lines were tested by Montgomery Metalcraft and they found that the no-lead line was leaking. They also found product in the ground around the line.

The ordinances of the City of Springfield provide for the recovery of the costs involved in the abatement of a violation under emergency conditions. By means of a copy of this letter, these costs are being certified to the Director of Finance as true and accurate costs incurred by the City of Springfield.

Attached to this letter is a detailed explanation of the costs incurred by the Public Works Department in the detection, monitoring and treatment of flammable hydrocarbon products in the sanitary sewer system until March 19, 1998. Payment of these costs should be made to the City of Springfield, and sent to:

Ms. Linda Russell City of Springfield Busch Building, Room 105 840 Booneville Springfield, MO 65802

Due to the nature of the problem, further action may be required to protect the health, life and property of those affected by the migration of lost hydrocarbon product.

1620 E SUNSHME

#### Costs to the City of Springfield September 7, 1997 to March 19, 1998

#### Water and Sewer Costs:

Water - 450 Sewer - 450					\$ 908.39 <u>382.50</u>
Personnel Co.	sts:	æ.			\$1,290.89
Chandler	Burden Rate 16.50	Overtime Rate 24.75	•	Time at Site (hours) 72.00 14.00	\$1188.00 346.50
Lyman	21.11	31.67		, 7.50 8.00	158.33 253.36
Pabst	19.32			9.50	183.54
Corson	19.32			5.50	106.26
Jones	8.25			1.00	8.25 \$2244.24
Equipment Co	<u>osts</u>				
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	Pickup) \$.066		16		1.06
	Pickup) \$.047		8		.38 \$55.58
	anized Nails, a uct curbs over t				\$55.84

TOTAL COST

\$3,646.52

RL GP (9/19) 3.50 (9/1) 2.15 (9/8) 2.40 (9/20) 2.00 (9/8) 2.40 (9/9) .45 ( (9/22) 3.15 (9/8) 2.00 (9/0) .45 ( 1.00 23 3.00(9/10) 1.15(9/24 45(10/20 3.00 9/10) 1.30 2.109/13 , 30 85.55 43hus +2575min .55 (12/3) .35 (12/12) .40 (12/19) 2575 min .50 (19 ,45 (9) 42 hrs 55min



September 9, 1997

SPRINGFIELD SEWER DEPT PO BOX 8368 SPRINGFIELD, MO 65801

This will authorize you to obtain a 2" water meter from the Water Measurement Department and connect same to a fire hydrant located at 1828 S KENTWOOD.

The charge is to be the regular rate for water used, but not less than the monthly minimum charge. The minimum charge for the periods less than one (1) month will be pro-rated. The minimum charge for a 2" water meter is \$120.00 per month.

Monthly meter readings must be received at City Utilities by the 10th day of each month. Mail reading to: City Utilities, P.O. Box 551, Springfield, MO, 65801 - ATTN: Meter and Service Center, or call 831-8391. Failure to send meter readings in for four (4) consecutive months may result in termination of this service.

If a fire hydrant meter is maintained by the customer for periods longer than six (6) months, the meter must be returned to the Meter and Service Center, 2115 W. Grand and exchanged for a new meter every six months. Failure to do so may result in termination of this service.

This fire hydrant meter must be connected each time water is taken from a fire hydrant. Failure to do so is and will be considered stealing. Anyone caught stealing water will be subject to prosecution by City Utilities.

This meter is equipped with check valves to prevent back siphonage into the water system. None of the valves or fittings attached to this meter shall be detached or dismantled in any way. Although this meter, with fittings, is designed to prevent backflow of any non-potable substance into the water system, the user of this meter is responsible to also take necessary precautions to prevent pollution of any kind to the water system. One such precaution is to keep the hose ends from being submerged in any vessel. This will prevent any liquid from being siphoned into the drinking water.

Before the fire hydrant meter is attached to the hydrant, the hydrant should be flushed for a couple of minutes. After the meter has been attached, the hydrant should be opened all the way, opening in the direction of the arrow - (closing in the opposite direction). To control the water flow, use shut-off valve on meter attachment. The meter should be removed after each use and not left on hydrant over night. The meter should not be allowed to freeze or damage may occur. Any meter or fire hydrant damage, because of misuse or neglect, will become the liability of the user.

> Steven P. Floyd Superintendent Meter and Service

SPF/wp

Time: 3:24 0m Meter #: 9505562 Present mtr rdg: 20 86

F.H. wrench: 4e Picked up by: RANDY LYMAN O.K. Per: JH

5.30 hb 330 mur 9/8-6:30 pm 1440 min 9/9 24hrs 1440 min 1440 men 9/10 24 hrs 1440 min 1440 min 9/11 24 hrs 1440 min 9/12 8:55 a.m 8:55 hrs 480+55 mins 535 min 5185 min X.35 181475 + 748= Sundank 243ccf + Kentwood 207ccf Cill TOUTES 10/1/97 = 2293 CCF miss. @ 35gpm. @ 1550 E. Sunshine

SPRINGFIELD, MISSOURI 65801-0551 (417) 831-8311 CENTRAL P. O. BOX 551 CUSTOMER SERVICE (417) 831-83 SERVICE NAME AND ADDRESS **BILLING DATE DELINQUENT DATE** ACCOUNT NUMBER 1828 S KENTWOOD **FHYD** 9/19/97 10/10/97 1645-6476-00 SPFD SEWER DEPT SUMMARY OF CHARGES 16-45 METER MULTIPLIER USAGE SERVICE PERIOD OF DAYS METER READING SERVICE NUMBER **BTU FACTOR** KWH/THERM/CCF **AMOUNT** FROM TO PRESENT **PREVIOUS** TYPE W1 2086 ES 9505562 9- 9 9 - 178 2105 19 32.00 M ACCOUNT ENTRY FEE 15.00 CURRENT BILL 47.00 RECEIVED IONS PREVIOUS AMOUNT -PAYMENTS RECEIVED **= UNPAID BALANCE TOTAL ADJUSTMENTS** + CURRENT CHARGES + LATE PMT, CHARGE = AMOUNT DUE .00 .00 47.00 47.00 E-ELECTRIC G-GAS W-WATER S-SEWER M-MINIMUM ES-ESTIMATED P-PRORATED C-CUSTOMER READING AR-ACTUAL READING SR-SPECIAL READING N-NO BILLING 19 CCF OF WATER = 14212 GALLONS PROJECT SHARE-A WORTHY CAUSE YOUR DONATION IS TAX DEDUCTIBLE NON-DOMESTIC-INSIDE CITY LIMITS WE ARE SCHEDULED TO READ YOUR METER(S) APPROXIMATELY 10/15/97 NO DEPOSIT PLEASE DETACH LOWER PORTION AND RETURN WITH PAYMENT OR IF PAYING IN PERSON - BRING ENTIRE BILL SPRINGFIELD, MISSOURI 65801-0551 (417) 831-8311 CUSTOMER SERVICE (417) 831-830 Our records indicate the phone number for this address is : A correct telephone number will help us better 0000-0000 If this number is incorrect, please enter the correct number here: handle your call during electrical outages. SERVICE ADDRESS BILLING DATE DELINQUENT DATE ACCOUNT NUMBER S KENTWOOD FHYD 9/19/97 10/10/97 1645-6476-00 CYCLE 16 BOOK \*\*\*\*\*\*\*\*\*\*3-DIGIT 658 AMOUNT DUE **PROJECT** SHARE SPFD SEWER DEPT DONATION PO BOX 8368 47.00 SPRINGFIELD MO AMOUNT PAID (If different) 65801-8368 DO NOT WRITE BELOW THIS LINE

11/96 TC-50

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301 E. CENTRAL P. O. BOX 551 SPRINGFIELD, MISSOURI 65801-0551 (417) 831-8311 CUSTOMER SERVICE (417) 831-83 BILLING DATE DELINQUENT DATE ACCOUNT NUMBER 1828 S KENTWOOD **FHYD** 11/13/97 12/ 2/97 1645-6476-00 SPFD SEWER DEPT **SUMMARY OF CHARGES** 22-00 NO. OF DAYS METER MULTIPLIER BTU FACTOR SERVICE PERIOD METER READING USAGE SERVICE NUMBER FROM TO PRESENT PREVIOUS KWH/THERM/CCF **AMOUNT** TYPE W1 10-16 11 - 419 2293 2293 AR 0 76.00 CURRENT BILL 76.00 PRIOR BALANCE 4.70 UNMETERED WATER USAGE 413.32 IN 30 DAYS FROM BILLING DATE - AMOUNT DUE WILL BE NOT PAID 543.42 PREVIOUS AMOUNT -PAYMENTS RECEIVED = UNPAID BALANCE TOTAL ADJUSTMENTS + CURRENT CHARGES + LATE PMT. CHARGE = AMOUNT DUE 372.07 367.37 4.70 413.32 76.00 .00 494.02 E-ELECTRIC G-GAS W-WATER S-SEWER M-MINIMUM ES-ESTIMATED P-PRORATED C-CUSTOMER READING AR-ACTUAL READING SR-SPECIAL READING N-NO BILLING \* \* \* FINAL BILL \* \* NON-DOMESTIC-INSIDE CITY LIMITS NO DEPOSIT PLEASE DETACH LOWER PORTION AND RETURN WITH PAYMENT OR IF PAYING IN PERSON - BRING ENTIRE BILL 301 E. CENTRAL P. O. BOX 551 SPRINGFIELD, MISSOURI 65801-0551 (417) 831-8311 SPRINGFIELD CUSTOMER SERVICE (417) 831-830 A correct telephone number will help us better Our records indicate the phone number for this address is : 0000-0000 handle your call during electrical outages. If this number is incorrect, please enter the correct number here: SERVICE ADDRESS **BILLING DATE DELINQUENT DATE** ACCOUNT NUMBER 1828 S KENTWOOD **FHYD** 11/13/97 12/ 2/97 1645-6476-00 CYCLE 22 воок \*\*\*\*\*\*\*\*\*\*\*3-DIGIT 658 AMOUNT DUE **PROJECT** hlladdaldanalllahallalalalalalalalal SHARE SPFD SEWER DEPT DONATION PO BOX 8368 494.02

DO NOT WRITE BELOW THIS LINE

65801-8368

AMOUNT PAID (if different)

SPRINGFIELD

MO

MEEK'S SUNSHINE ST. 3250 E SUNSHINE (417) -883-3636 SPRINGFIELD, MO 65 65808

SOLD TO

CASH SALE SUNSHINE



SHIP TO

CASH SALE SUNSHINE

		IMPORTANT: ALL MERCHANDISE SEE REVERSE	RETURNED SUBJECT TO A	RESTOCKING CHA	AGE.		
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• 7.					FREIGHT	0.00
	REC'D. BY	STATEMENT COPY/CAS	ATE:		TOTAL P DUE	-1.5

MEEK'S KANSAS @MT VERNOM 1551 W MT VERNOM

SPRINGFIELD, MO 65802

SOLD TO

CASH BALE



SHIP TO

CASH SALE

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IMPORTANT: ALL MERCHANDISE RETURNED SUBJECT TO A RESTOCKING CHARGE.

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	(清)	ar eller. Ser		4.5			<b>自转</b> 合并。[2]	FACIGMI	ଡ. ତତ
	REC'D. BY	F-W.		13	ATE:			laner with	-18.65

STATEMENT COPY/CASH SALE RECEIPT

# Vehicle BiFuel Report (Detail)

Date/Time Range = 09/01/97 12:00:00 AM - 03/31/98 12:00:00 AM Vehicle Filter = 4106 Product Filter = F

ie																								)			4106	Vehicle ID
03/25/98 09:46:34 AM	3/18/98 09:32:4	2/26/9	2/11/	/02/98 11:13:	1/22/9	/80/	/29/97	2/18/97 0	12/12/97 10:36:06 AM	12/05/97 11:09:02 AM	11/26/97 02:01:12 PM	11/21/97 09:32:07 AM	11/17/97 10:06:18 AM	11/12/97 03:46:24 PM	11/04/97 02:30:02 PM	10/24/97 01:33:41 PM	10/21/97 08:13:18 AM	10/13/97 09:17:23 AM	10/06/97 10:05:52 AM	10/02/97 09:29:37 AM	09/25/97 02:52:26 PM	09/22/97 01:59:29 PM	09/16/97 01:11:34 PM	09/12/97 08:22:32 AM	09/10/97 10:22:08 AM	09/08/97 03:26:02 PM	08/26/97 12:41:22 PM	Transaction Transaction Date Time
22906	276	22629	22478	22341	22198	22051	21920	21793	21645	21555	21421	21279	21128	21039	20892	20750(1)	20589(2)	20459	20341(1)	20248(2)	20111	19972	19857	19739(1)	19655(3)	19530(1)	19381	Trans Meter
140	137	151	137	143	147	131	127	148	90	134		151	89	147	142	161	130	118	93	137	139	115	118	84	125	149		Trans Usage (A)
11.50	10.85	10.40	10.05	9.75	11.20	10.40	9.50	8.45	9.30	10.80	10.05	9.50	7.50	11.25	9.85	10.95	10.20	10.20		•		10.55		0.6	7.75	10.20		Trans Qty (B)
	12.6	4	$\omega$	4.	•	2	ω	7.	.0		ή2		$\mathbf{r}$	$\omega$	4.	4.			<u>.</u>	11.9		10.9		•	•	14.6		Trans MPG (A/B)
FG7	FG7	FG7	FG7	FG7	FG7	FG7	FG7	FG7	FG7	FG7	FG7	FG7	FG7	FG7	FG7	FG7	FG7	FG7	FG7	FG7	FG7	FG7	FG7	FG7	FG7	FG7		Prod Type
0.82	\$0.870	0.87	0.85	0.84	0.84	0.89	0.89	0.89	0.89	0.92	0.92	0.92	0.92	0.93	0.93	0.92	0.92	0.96	0.96	1.01	1.01	1.01	1.07	1.07	\$1.070	1.07		Price
9.43	\$9.440	9.04	8.54	8.19	9.40	9.25	8.45	7.52	8.27	9.93	9.24	8.74	6.90	0.46	\$9.16	0.07	9.38	9.79	\$7.82	1.66	11.56	10.65	11.02	11.3	\$8.29	0.9		Cost

			Begin:	End:	Vehicle ID
Report Totals: Odometers: Hour Meters:			08/26/97 12:41:22	03/25/98 09:46:34 AM	Transaction Date
Odometers: Hour Meters:	8	Miles:	41:22 PM	46:34 AM	Transaction Time
Usage 3525 0		3525	19381	22906	Trans Meter
Qty 272.250 0	Average Price	Total Product	Total _	Total FG	Trans Tr Usage (A)
ty 50	ce:	ict:		G7:	Trans Qty (B)
	\$0.935	272.25	0.00	272.25	Trans MPG (A/B)
4106	Period Cost:	Cost/Miles	Miles/Day	Miles/Gal	Prod P Type
		Š	Y:	1:	Price
	\$254.545	\$0.072	16.72	12.9	Cost

# Vehicle BiFuel Report (Detail)

Date/Time Range = 09/01/97 12:00:00 AM - 03/31/98 12:00:00 AM Vehicle Filter = 4127 Product Filter = F

				0+4		IIsane	Report Totals:	
\$128.693	Period Cost:	Pe	\$0.909	Price:	Average Price			
\$0.047	Cost/Miles:	Ω	141.65	oduct:	Total Product	2687	Miles:	
12.67	Miles/Day:		0.00	   	Total	1013	08/20/97 01:11:43 PM	Begin:
19.0	Miles/Gal:		141.65	1 FG7:	Total	3700	03/20/98 01:11:52 PM	End:
\$17.531	\$0.870	FG7	17.1	20.15	345	3700	03/20/98 01:11:52 PM	
\$17.255	\$0.850	FG7	16.0	20.30	324	3355	02/13/98 09:34:04 AM	
\$17.010	\$0.840	FG7	16.1	20.25	326	3031	01/23/98 10:08:47 AM	
\$18.023	\$0.890	FG7	14.9	20.25	302	2705	12/17/97 01:37:13 PM	
\$18.584	\$0.920	FG7	18.6	20.20	376	2403	11/25/97 11:27:48 AM	
\$18.676	\$0.920	FG7	38.2	20.30	775	2027	10/29/97 11:07:14 AM	
\$21.614	\$1.070	FG7	11.8	20.20	239	1252(1)	09/10/97 09:19:08 AM	
						1013	08/20/97 01:11:43 PM	4127
Cost	Price	Prod Type	Trans MPG (A/B)	Trans Qty (B)	Trans Usage (A)	Trans Meter	Transaction Transaction Date Time	Vehicle ID
				-				

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Usage 2687

Qty 141.650

# Vehicle BiFuel Report (Detail)

Date/Time Range = 09/01/97 12:00:00 AM - 03/31/98 12:00:00 AM Vehicle Filter = 4126 Product Filter = F

				Begin:	End:									4126	Vehicle ID
Odometers:	Report Totals:		Miles:	08/12/97 10:48:18 AM	03/06/98 10:46:17 AM	03/06/98 10:46:17 AM	02/03/98 08:34:36 AM	01/09/98 03:42:17 PM	12/09/97 11:17:25 AM	11/17/97 10:07:14 AM	10/09/97 10:20:23 AM	09/18/97 02:26:34 PM	09/05/97 02:35:13 PM	08/12/97 10:48:18 AM	Transaction Transaction Date Time
2050	Usage		2050	916	2966	2966	2654	2383	2137(1)	1835(3)	1605(1)	1329(2)	1122(1)	916	Trans Meter
146.400		Average	Total Pr	Total	Total	312	271	246	302	230	276	207	206		Trans Usage (A)
400	Qty	Price:	Product:		1 FG7:	20.25	20.15	20.05	19.80	17.00	17.15	18.00	14.00		Trans Qty (B)
		\$0.925	146.40	0.00	146.40	15.4	13.4	12.3		13.5	16.1	11.5	14.7		Trans MPG (A/B)
		Peri	Cos	Mi	Mi	FG7		Prod Type							
4/26	16111	Period Cost:	Cost/Miles:	Miles/Day:	Miles/Gal:	\$0.870	\$0.850	\$0.890	\$0.890	\$0.920	\$0.960	\$1.010	\$1.070		Price
2	Signal Section 1	\$135.477	(\$0.066)	9.95	14.0	\$17.618	\$17.128	\$17.845	\$17.622	\$15.640	\$16.464	\$18.180	\$14.980		Cost

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Mr. Jeff Bird September 29, 1997 Page 2

- 1. That the service connection from your business and the adjacent building be "sealed" to keep groundwater from infiltrating the sewer main. This will require excavation in and along East Sunshine and the city public works should be consulted on this issue. Wayne Latimore is the contact at 417-864-1925.
- The recovery well should continue to be pumped at least twice a day for the next couple of weeks until your automated system is in place.
- 3. The vapor extraction well installed in the recovery trench should be put into operation.
- 4. Work with MDNR Hazardous Waste Program (HWP)/Tanks Section (Marty Kasper) to implement additional site characterization and cleanup. HWP Tanks should make this a top priority due to the serious nature of this release.

Items number one through four should be considered as requests necessary to abate the emergency. Please proceed immediately with the above actions. Contact Mr. R.D. Chorice at (417) 891-4300 and myself at (573) 526-3384 so that one of us can be available to oversee on-site activities.

Should you have any questions concerning this letter, feel free to contact me at (573) 526-3384.

Very truly yours,

ENVIRONMENTAL SERVICES PROGRAM

Alan J. Reinkemeyer

Environmental Specialist

Environmental Emergency Response Section

AJR/so

c: RD Chorice, Southwest Regional Office Marty Kasper, Hazardous Waste Program Cheryl Haines, Terracon Environmental, Inc. Ted Hummel, Lindsey Morden Claim Services, Inc.

FAX Transmitta' Fover Sheet  Date of Fax: 9/29/97  To: Wayne Latimore  Gity of Springfield	From: <u>Alan Runkemu</u>	URGENT Priority Routine As Requested FYI
FAX: SU4-1918 Phone: SUBJECT:	673) 524-3350 (573) FAX: 524-3350 Phone:	524-3349
RESPONSE EXPECTED:		
Total # of pages sent (including transmittal sheet):	If problems with FAX call: (573) 524	e-3349
MO 780-1430 (10-94)		RECYCLED PAPER

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## GASOLINE IN THE SANITARY SEWER - E. SUNSHINE

9-7-97 Sunday

9:40 p.m. - 1:30 a.m. (Monday)

(Randy Lyman)

10 miles

Randy Lyman received a call from Ernie Carter at 9:40 about a possible problem with gasoline in the sanitary sewer. At 10:50 p.m. he met with Gary Brown, Fire Marshal and Dan Whisler, Battalion Chief, of the Fire Department. Randy got the following readings with the United Technologies Bacharach CGI "Sniffer":

	b Ducharacti COL Dill.	LICI .	
Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	90	37-38%	
	18	0%	
	19		Locking, did not "sniff."
	20	0%	Zooking, are not sinn.
	17	0%	
	16	0%	
	15	0%	Sunshine.
	14	0%	Sunshine.
	12	0%	
	11	0%	
P-20 SW	78	0%	In front of Texaco Service Station
	77	0%	at 1326 E. Sunshine.
P-20 SE	91	7%	at 1926 E. Building.
	97	0%	#
	100	0%	
	925		

Randy obtained meter readings between 10% and 20% in both lines on Fremont to the south of Bennett until 12:49 a.m. Dan Whisler and Gary Brown told Randy they didn't have anything east on Bennett on to Glenstone. They said the problem seemed to be isolated in the area of University and Stanford at Fremont and north. Dan Whisler said they got a call on this at noon Sunday, again at approximately 4:00 p.m. and at 9:30 p.m., when Randy was called. At 12:52 a.m. Randy checked the big main at Bennett which Kraft discharges to and got a reading of 0% L.E.L. The fire department placed barricades on the MH's on the east side of Fremont until morning. Battalion Chief Grover will be on duty tomorrow as Dan Whisler's shift ends at 7:00 a.m. Monday. City Utilities had turned off gas service to all homes on both sides of Fremont, from Sunshine to Bennett Street. Randy returned to the office about 1:30 a.m.

9-8-97 Monday

8:45 a.m. - 10:45 a.m.

(R.L.)

8 miles

Randy checked the manholes and got the following readings:

Map Manhole Reading (L.E.L.) Comments
P-20 SE 90 5% 8:55 a.m.
91 2% 9:08 a.m.

1620 E. SUNSHINE

At 9:10 a.m. Randy talked with the City Utilities gas supervisor and they were going to turn the gas back on at all of the houses where it was shut off last night. He checked the following manholes:

Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	60	10%	9:20 a.m.
	61	10%	
	62	0%	9:23 a.m.
	63	0%	9:25 a.m.
	14	0%	Fremont. 9:30 a.m.
	15	0%	Fremont.
	36	10%	9:35 a.m.
	58	10%	9:36 a.m.

At 9:55 a.m. Randy talked with Kevin Harp of the C.U. gas department and then checked the following manholes:

P-20 SE	15	10%	Sunshine.
	16	0%	
	17	7-8%	
	18	5-6%	
	19	2%	
	20	5%	
	14	0%	
	12	0%	
	11	0%	

Randy called Charles Collins of DNR, but he was not in. Wendall Hall was in a meeting at this time.

12:00 p.m. - 2:15 p.m.

(Gene Pabst)

8 miles

Gene Pabst loaded four more barricades on his truck and went to Fremont and Sunshine to check the L.E.L.'s in the manholes. He got the following readings:

Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	97	0%	No odor.
	91	0-1%	Slight odor.
	90	9-10%	Gasoline odor.
	63	0%	
	61	0%	Slight odor-sewer or gasoline.
	37	0%	
	36	0-1%	Opened lid and put barricade on it.
			Slight gasoline odor.
	15	4-5%	Fremont. Gasoline odor.
	14	0%	Fremont. No odor.
P-20 SW	54	0%	36" main.
P-20 SE	11	0%	

Map	Manhole 12	Reading (L.E.L.) 0%	Comments
	14	0%	Sunshine. Pulled cover, possibly slight gasoline odor.
	15	65%	Sunshine. Opened MH cover. Dipped out some water. Saw no product on water.
	16	15%	Opened lid.
	17	0%	and the control of th
	18	0%	
	19	0%	
	20	0%	×II

Gene checked the sampling manhole on the west side of the Total station. He thought he could smell a faint gasoline odor. He had to open the lid to use the meter and got a reading of 0-1%, which then dropped back to 0%. Gene talked to Tori at Total, but she did not know of any problems at the station. He checked under every dispenser and found nothing. Tori ran a rough check of her records and couldn't find a product loss. She gave Gene the name of her supervisor, Connie Booth. Connie was off that day and Tori suggested he call her at home and leave a message. At 1:50 p.m., Gene rechecked the following manholes:

Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	15	10%	
	16	15-20%	

3:45 p.m. - 7:00 p.m. (Randy Lyman & Karen Chandler) 20 miles

At 4:00 p.m., Randy and I checked the following manholes:

Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	15	50%	Sunshine. With cover off.
	16	30-40%	With cover off.
	17	0%	With closed cover.
	18	0%	With closed cover.
	19	0%	Locking lid, did not check.
52 St 52 SS	1200 mm		8 ,

At 4:15 p.m. we talked to Connie Booth at Total. She said they have Terracon Environmental of St. Louis to handle this kind of problem. They have ordered a tank test for tomorrow. They had their semi-annual leak detector test done last Friday. Randy and I then checked the following manholes:

Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	17	0%	4:25 p.m.
	16	35%	4:27 p.m.
	15	65%	Sunshine. 4:30 p.m.
	91	0%	4:33 p.m.
	90	2%	4:35 p.m.
	12	0%	5:20 p.m.
	14	0%	Sunshine.

Map	Manhole	Reading (L.E.L.)	Comments
P-20 SW	6	0%	
	78	0%	5:30 p.m.

Randy and I went back to the office and loaded up some fire hose, the backflow preventor, etc. We returned to Sunshine street and opened up a fire hydrant above manhole 17 and let it run all night.

8:30 p.m. - 12:00 a.m. (K.C.) 15 miles

This evening I was driving by the Total station and noticed several fire department vehicles there. I stopped and talked to one of the firemen. He said there was a strong gasoline odor in the building and the management of Total had closed the station. I used the meter around the floor drain and the sink in the back room and got 0% L.E.L. I checked the following manholes:

Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	17	0-2%	
	16	0-2%	
	15	5%	Sunshine. Gasoline odor.
	18	80%	

I went to the office to get the City truck and load up some barricades. After returning to Sunshine and Fremont, I checked the following manholes:

Sunshine and	Fremont, I checked th	e following manholes:	
Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	18	100%	10:00 p.m. I opened the cover and
			put a barricade over it.
	17	0-2%	
	16	2%	Faint gasoline odor.
	15	2-5%	Sunshine. Gasoline odor.
	14	0%	Sunshine. Also checked MH at
			Pickwick and Sunshine, which is
			adjacent to MH 14 and got 0%
			L.E.L.
	12	0%	2.2.2.
	91	0%	
	90	0%	Strong sewer smell.
	36	0%	Swong sower smon.
	15	0%	Fremont.
	14	0%	Fremont. Strong sewer smell.
	11	0%	Also checked MH at Sunshine and
			Fremont which is adjacent to MH 11
			and got 0% L.E.L.
	18	100%	10:46 p.m. I talked to Connie Booth
			at the Total station and gave her the
			meter readings.
	19	25-30%	Opened cover and put barricade on
			it.

Map	Manhole	Reading (L.E.L.)	Comments
	20	30%	I didn't have enough barricades to
			open MH 20.
	19	10%	11:07 p.m.
I went back to	the service center and	got more barricades so	o I could open MH 20.
	20	25%	11:39 p.m. Opened cover and put a
			barricade on it.
	18	95%	11:44 p.m.

I talked to the cashier at Total and she said the odor was gone from the building and they had plugged the drains, etc. At 12:00 a.m. I called Dennis Grover, battalion chief at the fire department, and told him my findings. Neither of us could think of anything else to do at this time.

9-9-97 Tuesday

9:05 a.m.-11:00 a.m. (K.C.)

8 miles

This morning I checked manholes on Sunshine and Fremont and got the following readings:

THIS IIIOIIII	ig i checked mainoles	on building and Field	one and got the following readings:
Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	18	15%	
	19	15-25%	
	20	0%	
	17	0-2%	Faint gasoline odor.
	16	0%	
	15	0-1%	Sunshine. Strong sewage odor, possibly faint gasoline odor.
	14	0%	Sunshine. Checked adjacent MH at
			Sunshine and Pickwick, 0% L.E.L.
	12	0%	
	91	0%	
	90	0%	Strong sewer odor.
	36	0%	
	15	0%	Fremont.
	14	0%	Fremont.
	11	0%	Checked adjacent MH at Sunshine
			and Fremont, 0% L.E.L.
	18	50-100 %	

I talked to Connie Booth about the readings. Wendall Hall, MDNR, was at the Total Station at this time doing some sampling of from monitoring wells. I also talked to him about the readings. He asked me to check the Total's sampling manhole and the cleanout for Key Largo. I got a reading of 20% in Key Largo's cleanout and a reading of 50% L.E.L. in the sampling manhole, which I opened and put a barricade on. Wendall asked if I could scoop some water out of MH 18. There was some product on this water when we poured it out on the lot. He also asked if I could get some barricades or tall cones so he could block of part of Total's drive while he was

working.

11:15 a.m. - 12:30 p.m.

(R.L. & K.C.)

7 miles

After load up some cones for Wendall Hall at the garage, Randy and I returned to the Total station. Randy dyed the station's sewer line and determined that it goes in above MH 18. We put cones across one entryway of the Total Station to slow down traffic. Wendall had gotten permission from Connie Booth to do this. At 11:45 a.m., I got the following meter reading:

Map

Manhole

Reading (L.E.L.)

Comments

P-20 SE

18

100%+

3:00 p.m. - 7:00 p.m.

(K.C)

16 miles

3:00 p.m. - 5:40 p.m.

(R.L, B.C., & G.P.)

At 3:00 p.m. I returned to the Total station after loading up fire hose, barricades, etc.

At this time I got the following reading:

Map

Manhole

Reading (L.E.L.)

Comments

P-20 SE

18

20-25%

I talked to Connie Booth and told her we were going to run water in above MH 18. At this time NDE Environmental and Precision Tank Testing Services were at the station testing the tanks.

At 4:00 I got the following reading:

Map

Manhole

Reading (L.E.L.)

Comments

P-20 SE

18

10%

Gene Pabst and Bob Corson met me on Kentwood street. We ran the firehose from the hydrant to manhole 28 (wye map Q-20). This hose had to go across one of the entrances to the Plaza Towers Shopping Center. Gene and Bob made ramps out of 2" x 4"'s to go over the hose so people could drive over it. Randy got a water meter from the City Utilities Water Department and some fittings from the hardware store, so the hose would fit on it. The beginning reading on water meter #9505562 was 208690 (meter reads in cubic feet). At 5:40 I got the following meter reading:

Map

Manhole

Reading (L.E.L.)

Comments

P-20 SE

18

25-30 %

I talked to Connie Booth and she said the testing showed the tanks were tight. The mid-grade and premium lines were tight. They still have to do the no-lead lines. I then checked the following manholes:

Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	19	0%	
	20	0%	
	17	0-2%	Gasoline odor.
	16	0%	
	15	0%	Sunshine.
	14	0%	Sunshine. Adjacent MH at Sunshine
			and Pickwick was 0% L.E.L.

12	0-1%	
91	0%	Readjusted barricade.
90	0%	Strong sewer odor.
36	0%	8 2 3 1 0 2 0 2001
15	0%	Fremont.
14	0%	Fremont.
11	0%	
18	15-25%	6:30 p.m.

I checked the fire hose installation on Kentwood and everything was in place.

9-10-97 Wednesday

9:10 a.m. - 10:15 p.m. (K.C.)

8 miles

This morning I went to the Total station. Montgomery Metalcraft had checked the lines and found that the no-lead line was leaking and there was product around it. Alan Reinkemeyer, with the MDNR's Environmental Emergency Response, was at the station. He said they had cut Total's sewer service line to the City's main. He also mentioned that they found pockets of free product at 3' and 10'. The reading in the manhole today was:

Map Manhole Reading (L.E.L.) Comments P-20 SE 18 5-10%

He asked me to turn off the fire hydrant above MH 18 and see what happened. I shut off the fire hydrant on Kentwood at 9:25 a.m. The water meter reading was 0214320. I then checked the following manholes:

N.4-	3 ( 1 1	TO 111 OF THE 2	0.000
Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	20	0%	
	19	0%	
	17	0%	Gasoline odor.
	16	0%	
	15	0%	Sunshine.
	14	0%	Sunshine. Adjacent MH reading was
			0% L.E.L.
	12	0%	
	91	0%	
	90	0%	Strong sewer odor.
	36	0%	
	15	0%	Fremont.
	14	0%	Fremont.
10:45 a.m 1	:45 p.m.	(K.C.)	16 miles
11:30 a.m 1	:30 p.m.	(G.P. & R.L.)	

At 10:45 a.m. I returned to the Total station. They were digging a trench in front of dispensers 1&2 and 3. I checked the following manholes:

Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	18	90%	11:10 a.m.
	17	0%	
	16	0%	
	19	0%	

The storm sewer manhole in front of Key Largo had a reading of 0%. Alan Reinkemeyer asked me to turn the fire hydrant back on above the manhole, which I did at 11:30 a.m. A couple of the wooden platforms that went over the hoses were broken. I called Gene Pabst and asked him if he would bring out a hammer and more nails. I moved the broken platforms onto the parkway. Gene and Randy brought more nails and repaired the platforms. At 12:45 p.m. I got the following reading:

Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	18	0%	

Karen Schaefer and Richard Lee of Sunbelt were at the Total station at this time. They were looking at an odor problem in the building to the west of the station. Apparently there was a gasoline odor in two of the first floor restrooms. At 12:55 Gene and I went to Roosevelt Bank, across the street at 1605 E. Sunshine, to check the sumps in the lower level. We talked to Robert Davis, the manager of the bank, and checked all three sumps, which had readings of 0% L.E.L. on the meter. When we returned to the Total Station, Sunbelt was pumping water with some product on it out of the pit. Alan Reinkemeyer wanted us to try shutting off the fire hydrant on Kentwood again, which I did at 1:25 p.m. The water meter reading was 0214840. A couple of the wooden platforms were damaged again, so I set them all on the parkway.

I loaded up 5 more barricades back at the office to put over the fire hose which ran across the entryway to the Plaza Towers Shopping Center. I returned to Sunshine and Fremont Streets and checked the following manholes:

checked the	ionowing maintoles:		
Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	18	5%	They were loading up dirt at the
			station.
	19	0%	
	20	0%	
	14	0%	Fremont.
	15	0%	Fremont. Strong sewer odor.
	36	0%	-
	90	0%	Strong sewer odor.
	91	0%	0%
	11	0%	
	12	0%	
	14	0%	Sunshine. Checked adjacent
			manhole and got 0% L.E.L.
	15	0%	Sunshine.
	16	0%	

17 0% 18 25-30%

I turned the fire hydrant on at Kentwood again. I talked to a couple of people in the Plaza Towers Leasing and Management office (they manage the shopping center) and told them we were going to have to block off one of the entryways to the parking lot while the fire hydrant was running. They didn't have any objections to this. Randy and I loaded up the wooden platforms in my truck. At 5:00 p.m. I got the following reading:

Map

Manhole

Reading (L.E.L.)

Comments

P-20 SE

18

15-25%

When I returned to the Total station, I talked to Cheryl Haines, of Terracon; Karen Schaefer, of Sunbelt; and Alan Reinkemeyer, of MDNR about the readings and turning on the fire hydrant again.

9-11-97 Thursday

8:30 a.m. - 9:15 a.m.

(K.C.)

8 miles

Map

Manhole

Reading (L.E.L.)

Comments

P-20 SE

18

5%

When I arrived at the Total Station, I noticed that they had removed the piles of dirt that were there yesterday. I gave Allan Reinkemeyer the reading. I turned off the fire hydrant on Kentwood at 9:00 a.m. and moved the barricades off the firehose onto the parkway. The meter reading at this time was 0220380.

10:30 A.M. - 11:45 A.M.

(K.C.)

8 miles

When I arrived at the station, they were removing more dirt from the trench. I gave Allan Reinkemeyer the copy of the information about the sewer line that Wayne Latimer made for him and then checked the following manholes on Sunshine and Fremont:

Map P-20 SE	Manhole 18 19 20 17 16 15 14 12	Reading (L.E.L.) 0-5% 0% 0% 0% 0% 0% 0% 0% 0%	Comments 10:50 a.m. Sunshine. Sunshine.
Мар	91 Manhole	0% Reading (L.E.L.)	Comments
P-20 SE	90	0%	Comments

36	0%	
15	0%	Fremont.
14	0%	Fremont.
1:15 P.M 2:45 P.M.	(K. C.)	10 miles

I checked the manholes on Sunshine and Fremont and got the following readings:

Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	11	0%	
	12	0%	
	14	0%	Sunshine.
	15	0%	Sunshine.
	16	0%	
	17	0%	
	18	2.5%	2:00 p.m.
	19	0%	:
	20	0%	

I talked to Alan Reinkemeyer, of DNR; Bryan Gatlin, of Terracon; Ted Hummel, of Lindsey Morden Claim Services, Inc.; and Connie Booth, of Total, about the meter readings. Meter readings on Fremont were as follows:

Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	91	0%	
	90	0%	Strong sewer odor.
	36	0%	
	15	0%	
	14	0%	

3:15 p.m	4:30 p.m.	(K.C.)	12 miles
Map	Manhole	Reading (L.E.I	) Comments
P-20 SE	18	1%	

At this time, Alan Reinkemeyer wanted to close the lid of MH 18 and wait for a little while to see what happened. I checked the firehose installation on Kentwood and everything was in place. I looked at the firehose installation on Sunshine and everything was working correctly. At 4:00 p.m. I returned to the Total station and checked MH 18 again. The reading was 1-2% L.E.L. Alan and I opened it back up. I reported the reading to Alan Reinkemeyer, Bryan Gatlin and Connie Booth.

9-12-97 Friday

8:30 a.m. - 9:05 a.m.

(K.C.)

8 miles

Map

Manhole

Reading (L.E.L.)

Comments

P-20 SE

18

0%

The trench was being filled back in when I arrived. I spoke with Lee Schaefer, of Sunbelt; Alan Reinkemeyer, of MDNR; and Bryan Gatlin, of Terracon. They put in a recovery well, which they will pump twice a day over the weekend and then once a day next week, unless things change. Alan asked me to check the manholes and if readings come back up, he will require the sewer main in this area to be insituformed. Apparently this is already a cleanup site and it will move up on the list. I called Randy and left a voice message about the reading. I turned off the fire hydrant on Sunshine at 8:55 a.m.

12:45 p.m. - 2:00 p.m.

(K.C)

10 miles

I checked manholes on Sunshine and Fremont and got the following readings:

Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	12	0%	
	11	0%	
	14	0%	Sunshine.
	15	0%	Sunshine.
	16	0%	
	17	0%	
	18	0%	

I talked to Bryan Gatlin, of Terracon; Connie Booth, of Total; Alan Reinkemeyer and another man from the DNR office. I told them I would check the manholes once a day over the weekend, unless something changed.

BB			
Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	19	0%	
	20	0%	
	91	0%	
	90	0%	
	36	0%	
	15	0%	Fremont.
	14	0%	Fremont.

(K.C.)

I checked the following manholes on Friday afternoon:

P-20 SE

Map

Manhole 18

Reading (L.E.L.)

Comments

11 miles

19

3:10 p.m. - 4:00 p.m.

0%

0%

Map

Manhole 20

Reading (L.E.L.) 0%

Comments

I gave Connie Booth and Bryan Gatlin my results. They were filling in the trench with gravel at this time. The fire hydrant installations on Sunshine and Kentwood looked alright.

9-13-97

Saturday

9:30 a.m. - 11:40 a.m.

(K.C.)

8 miles

It was raining while I was checking the following manholes:

Map	Manhole	Dooding (LEL)	5.50
	Mannole	Reading (L.E.L.)	Comments
P-20 SE	11	0%	Checked the manhole on Sunshine
			and Fremont which is adjacent to this
			one (0% L.E.L.)
	12	0%	It was raining while I was checking
			the manholes.
	14	0%	Sunshine.
	15	0%	Sunshine.
	16	0%	
	17	0%	
	18	5%	9:50 a.m. Manhole cover was closed
			when I arrived.

I went back to the office to get my truck so I could open the cover on MH 18 again.

Manhole	Reading (L.E.L.)	Comments
19	0%	
20	0%	
18	0-1%	10:35 a.m.
	19 20	19 0% 20 0%

The reading on manhole 18 went down after I opened the cover. I talked to Connie Booth about the readings. She said to call her if it came up. Connie thought someone probably closed the cover on manhole 18 last night when they were working around the dispensers. I checked the fire hose installation on Kentwood. One of the barricades holding the hose and one the cones were down, so I set them back up and checked the following manholes:

Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	91	0%	
	90	0%	
	36	0%	
	15	0%	Fremont.
	14	0%	Fremont.
	18	0%	11:07 a.m.

I told Jeffrey, who was working at the cash register in the Total Station, the meter reading. He said they pumped out the well at 7:30 this morning.

5:30 p.m.- 6:00 p.m. (K.C.)

Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	17	0%	Sewer odor
	18	0%	Sewer odor
	19	0%	

I also checked the storm sewer manhole in front of Key Largo and got a reading of 0% L.E.L. I gave the meter reading to the cashier at the Total Station. I checked the barricades on Sunshine and Fremont and the fire hose installation on Kentwood and everything was in place.

#### 9-14-97 Sunday

10:50 a.m 1	1:30 a.m. (K.C.	)	8 miles
Map P-20 SE	Manhole 11	Reading (L.E.L.) 0%	Comments Checked manhole at Sunshine and Fremont which is adjacent to MH 11 and got 0% L.E.L.
	12 14	0% 0%	Checked manhole at Sunshine and Pickwick which is adjacent to MH 14 and got 0% L.E.L.
	15 16	0% 0%	Sunshine.
	17	0%	Sewer odor. Fire hose installation is OK.
	18 19 20	0-1% 0% 0%	No gasoline odor in MH.

I also checked the storm sewer manhole in front of Key Largo and got 0% L.E.L. I told Jeffrey at Total about the readings. He said they pumped the groundwater an hour ago. I checked fire hose installation on Kentwood and everything was in place.

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Map	Manhole	Reading (L.E.L.)	Comments	
P-20 SE	91	0%		
	90	0%		
	15	0%	Fremont.	
	14	0%	Fremont.	
	36	0%		

9-15-97 Monday

8:45 a.m. - 10:00 a.m.

(K.C)

11 miles

Monday morning I checked the following manholes:

Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	12	0%	
	11	0%	
	14	0%	Sunshine.
	15	0%	Sunshine.
	16	0%	
	17	0%	Fire hose installation OK.
	18	0-1%	No gasoline odor in sewer.

I talked to John Dixon and Connie Booth of Total about the readings. Personnel from Sunbelt arrived to pump out the well as I was leaving. I put the cap back on the cleanout of Key Largo's sewer line and checked the following manholes:

Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	19	0%	Closed lid.
	20	0%	Closed lid. Fire hose installation on
			Kentwood OK.
	91	0%	Closed lid.
	90	0%	Closed lid.
	36	0%	Closed lid.
	15	0%	Fremont. Closed lid.
	14	0%	Fremont. Closed lid.

1:00.p.m. - 2:00 p.m. (K.C.)

8 miles

Map P-20 SE	Manhole 12	Reading (L.E.L.)	Comments
F-20 SE	12		
	14	0%	Checked manhole at Sunshine and
			Pickwick which is adjacent to 14 and reading was 0% L.E.L.
	15	0%	Sunshine.
	16	0%	
	17	0%	
	18	1%	Slight gasoline smell in MH. The
			barricade over it was flattened, put it

upright.

I gave the reading to John Dixon and also talked to Don Hatch of Sunbelt.

Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	20	0%	Fire hydrant installation on
			Kentwood OK.

Map	Manhole 36	Reading (L.E.L.) 0%	Comments Someone had moved barricade off MH to other side of yard, I replaced it.
	15	0%	Fremont.
	14	0%	Fremont. Removed barricade and put it on MH 18.
9-16-97	Tuesday		
8:45 a.m 9:3	30 a.m. (K.C.)	)	6 miles
Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	1.5	007	0 1' 01 11'1
	15	0%	Sunshine. Closed lid.
	16	0%	Closed lid.
	16	0%	Closed lid. Closed lid. Fire hose installation OK. Told John Dixon the results. He didn't think they had pumped yet.
	16 17	0% 0%	Closed lid. Closed lid. Fire hose installation OK. Told John Dixon the results. He

The weather forecast for this evening predicted a lot of rain, so I decided to open the manhole covers again.

Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	18	5%	1:40 p.m.
T T CC	0 m	N 1924 22 121 1212 1313 1311	** *

I gave Jeffrey, of Total, my meter reading. I also talked to Don Hatch of Sunbelt. He said he had been pumping 300-350 gallons of water twice a day, where now he was pumping 700 gallons once a day.

once a day.			
Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	17	0%	Opened MH cover.
	15	0%	Sunshine. Opened MH cover.
	16	0%	Opened MH cover.
	91	0%	Opened MH cover.
	90	0%	Opened MH cover.
	36	0%	Opened MH cover.
	15	0%	Fremont. Opened MH cover.
	14	0%	Fremont.
	12	0%	
	14	0%	Pickwick & Sunshine.

Map	Manhole	Reading (L.E.L.)	Comments
	19	0%	Opened MH cover.
	20	0%	Opened MH cover. Firehose
			installation on Kentwood OK.
	18	25%	2:55 p.m.

I told Jeffrey at the Total Station my reading. He said he would call Connie Booth. I also called Randy Lyman about the reading. I turned on the fire hydrant on Kentwood again (0220560, beginning reading today).

Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	17	0%	
	18	15%	3:40 p.m.

I gave Connie Booth my meter reading. She asked me to check the sampling manhole next to the building because there was a gasoline odor in that area. The reading in that MH was 5% L.E.L. Connie called Cheryl Haines, of Terracon, while I was in her office and I gave her my meter readings.

9-17-97 Wednesday

1:45 p.m. - 2:40 p.m.

8:30 a.m. - 9:25 a.m. (K.C.) 10 miles

This morning I called Alan Reinkemeyer and left a voice message about the readings yesterday, because he had called me. Randy Lyman got a call this morning from Brad Marshall, who is with DSI (Diversified Systems International, Inc.). The company is a contractor for C.U. and they are replacing the gas line on Kentwood. He told Randy they would have to block off one lane of traffic on Kentwood and needed to open the lane where the fire hose and barricades were set up.

Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	17	0%	Slight gasoline smell.
	18	2.5%	9:00 a.m.

I gave Connie Booth and John Dixon, of Total, the meter readings and they mentioned Sunbelt had pumped this morning. I turned off the fire hydrant on Kentwood at 9:10 a.m. The meter reading was 0227580. I moved the barricades away from the driveway in at the Plaza Towers parking lot. Some of the DSI personnel moved the firehose and the barricades. I went back to the Total station and talked to Don Hatch of Sunbelt. He said that last night between 5:30 and 7:30 he pumped 100 gallons of water out of the well and it had 1-2 gallons of product on it. He said the station is going to put in a permanent groundwater cleanup system.

8 miles

*	-		
Map P-20 SE	Manhole 12	Reading (L.E.L.) 0%	Comments
1 20 55	14	0%	Sunshine.
	15 16	0% 0%	Sunshine.

(K.C.)

Map	Manhole	Reading (L.E.L.)	Comments
	17	0%	Slight gasoline smell.
	18	0%	Slight gasoline smell.

I gave Connie Booth and John Dixon the meter reading. I also talked with Chuck Schaefer, of Terracon, who was at the station. Chuck had taken readings in the manhole about 3' below grade with Sensidyne tubes and got <0.03% and ~30 ppm. He said he was going to install a vacuum system to pull out vapors from the area where the leak occurred, but in order for it to work properly a concrete cap would have to be poured over the gravel fill. I then checked the following manholes:

ionowing mai	moies:		
Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	19	0%	
	20	0%	Firehose installation still lying on parkway and the other lane is still closed.
	91	0%	
	90	0%	
	36	0%	
	15	0%	Fremont.
9-18-97	Thursday		
8:25 a.m 9:	15 a.m. (K.C	.)	10 miles
Map P-20 SE	Manhole 17 18	Reading (L.E.L.) 0% 0-1%	Comments Sewer odor.

I gave John Dixon the meter reading. I also talked with Chuck Schaefer of Terracon. He said they are going to put a concrete cap over the gravel so the vacuum pump system will work properly. His OVM reading was 11 ppm. I checked the firehose on Kentwood and it was still lying on the parkway.

Kevin Swearingen asked me to talk to the manager of Key Largo about his business hours. He said Bill Afholder of Insituform had called and they wanted to insituform the line either Tuesday or Wednesday evening. I spoke with Doug Sweet, the manager of Key Largo, about his hours. He said they are open 7 days a week, from 11:00 a.m. - 1:30 a.m. He also said they had activities planned at the bar on Tuesday and Wednesday evenings, and he had sent out flyers about them. I gave him Bill Afholder's number and asked him to call Bill about this. I called Kevin back and told him what I had learned.

Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	18	0%	

I gave the meter reading to the cashier in the Total Station. I also spoke with Chuck Schaefer. He had the vacuum pump going, but no concrete cap over the gravel yet.

Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	19	0%	
	20	0%	Checked firehose installation on Kentwood and it is still on the parkway.
	12	0%	•
	14	0%	Sunshine.
	15	0%	Sunshine.
	16	0%	
	17	0%	Firehose installation OK.
	91	0%	
	90	0%	
	36	0%	
	15	0%	Fremont.

### 9-19-97 Friday

I called Alan Rinkemeyer this morning and told him about the problem that Key Largo would have with shutting down on Tuesday or Wednesday evening.

12:45 p.m. - 1:15 p.m. (K.C.)

9 miles

On Friday afternoon I got the following readings in the manholes:

Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	12	0%	
	14	0%	Sunshine.
	15	0%	Sunshine.
	16	0%	
	1 <b>7</b>	0%	Fire hose installation OK.
	18	0%	They have poured cement over the gravel fill in the trench. I gave John Dixon the meter reading.
	19	0%	small the motor reading.
	20	0%	Fire hose installation looks OK.
	91	0%	
	90	0%	
	36	0%	
	15	0%	Fremont.

9-20-97 Saturday

6:15 p.m. - 6:30 p.m.

(K.C.)

It rained about .51 of an inch today. I checked the following manholes on Sunshine:

Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	18 17	0% 0%	
	16	0%	

I gave the cashier at Total the meter reading for MH 18.

9-22-97 Monday

8:45 a.m. - 9:30 a.m.

(G.P. & B.C.)

8 miles

This morning Kevin Swearingen told me that the Insituform company was going to line the pipe this evening. He said they would need to have access to a fire hydrant and would need a water meter. We thought they could use the meter we checked out for the hydrant on Kentwood Street. Bob and Gene removed the meter this morning. The reading on it at this time was 227580.

1:00 p.m. - 1:45 p.m.

(B.C. & K.C.)

8 miles

This afternoon Bob Corson and I removed the backflow preventor that we installed on the fire hydrant on Sunshine Street, because the Insituform people need to use the fire hydrant this evening.

2:15 p.m. - 3:00 p.m.

(K.C.)

10 miles

This afternoon I checked the following manholes:

This arterno	on i checked the fold	owing maimotes.	
Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	12	0%	
	14	0%	Sunshine.
	15	0%	Sunshine. Sewer odor.
	16	0%	
	17	0%	
	18	0%	2:35 p.m. Gave clerk at Total the
			meter reading.
	19	0%	G
	20	0%	
	91	0%	
	90	0%	
	36	0%	
	15	0%	Fremont.

9-23-97 Tuesday

This morning Alan Reinkemeyer called me about 10:00 a.m. and said they were done with the insituforming. He said Total's connection into the main was a little jagged and was taking some groundwater.

12:35 p.m. - 1:40 p.m.

(K.C.)

7 miles

It has been raining steadily all day and was raining heavily while I checked the manholes:

Te mus seem run	ining steading an day an	id was raining neavity	write I checked the mannoles:
Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	12	0%	
	14	0%	Sunshine.
	15	0%	Sunshine. This manhole was taking
			a lot of rainwater.
	16	0%	Not taking much rainwater, below a
			storm grate.
	18	0%	1:00 p.m. Cover was closed when I
			got there, opened it again, told John
			Dixon the reading.
	20	0%	Cover under water, apparently
			closed, didn't check. I checked the
			firehose on Kentwood. Three cones
			were lying in the street so I put them
			upright.
	17	0%	Cover was closed when I got there,
			opened it again. A lot of runoff from
			the parking lot was running in it.
	19	0%	Cover was closed. Locking lid,
			didn't "sniff."

At 1:40 I talked to Alan Reinkemeyer, who was at the Total station, and he said they were going pump out the groundwater once a day. I went back to the garage to see if there were some sandbags to put around a couple of the manholes to keep out the excess rainwater.

2:00 p.m. - 3:00 p.m.

(K.C. & James Jones)

7 miles

James Jones helped me load up some sandbags and we put them around manholes 15 and 17 on Sunshine Street. The bags diverted most of the rainwater from the manholes. We then checked the following manholes:

Manhole	Reading (L.E.L.)	Comments
91	0%	
90	0%	
36	0%	
15	0%	Fremont.
	91 90 36	91 0% 90 0% 36 0%

#### 9-24-97 Wednesday

This morning at 10:25 a.m., Lee Schaefer, of Sunbelt, called and asked what we were going to do about the manholes. I said we were going to keep them open through the weekend because of all the rain we have had. He said he thought that would be a good idea because they have been pumping them twice a day, and the people that have been pumping them think they "smell hotter" although they haven't seen any obvious petroleum product on the water. Lee also said they have had to change a charcoal cannister, which indicates they are getting some product going through them. He said he would take a sample of the water when they pump it this afternoon and see if there is anything visible on the water. See also mentioned that they had treated 5,000 gallons of water and they are getting between 300 and 500 gallons every time they pump it.

The ending reading on the C.U. water meter that we borrowed was 0229340.

12:45 p.m. - 2:00 p.m.

(K.C.)

9 miles

On Wednesday afternoon, I got the following readings in the manholes:

	day arternoon, 1 got the	ronowing readings in	the mainoles.
Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	12	0%	
	14	0%	Sunshine.
	15	0%	Sunshine.
	16	0%	Barricade was broken and lying on
			the parkway, set it back over the
			open manhole.
	17	0%	Insituform odor.
	18	0%	Gave cashier at Total the reading.
	19	0%	Cover was closed when I arrived,
			picked up barricade. Locking lid,
			did not "sniff."
	20	0%	Cover was closed when I arrived,
			picked up barricade. Kentwood
			Street closed, firehose looked O.K.
			from corner.

I went back to manhole 16 and put one of the barricades I picked up over the manhole and took the broken one.

91	0%
90	0%
36	0%
15	0%

Fremont.

9-25-97 Thursday

1:00 p.m 2	:05 p.m.	(G.P. &	& K.C.)	11 miles
This afternoo	on, Gene Pabst a	and I che	cked the following m	nanholes on Sunshine:
Мар	Manhole		Reading (L.E.L.)	Comments
P-20 SE	12		0%	
	14		0%	
	15		0%	Removed sandbags.
	16		0%	Faint gasoline smell.
	17		0%	Removed sandbags, faint gasoline
				smell. MH surcharged.
	18		5%	1:30 p.m. Gasoline smell. Gave
				John Dixon the results. He said he
				had also noticed the odor.
	20		10%	We went to Kentwood St. and got a
				couple of barricades.
	19		10-15%	This was reading when MH cover
				was first opened. Put a barricade
				over it. We then opened MH 20.
	19		3-4%	~~
3:00 p.m 4:	00 p.m.	(K.C.)		10 miles

It was very breezy this afternoon. I returned to Sunshine and Fremont and got the following readings:

readings.			
Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	12	0%	
	14	0%	Sunshine.
	15	0%	Sunshine.
	16	0%	Faint gasoline odor.
	17	0%	Gasoline odor.
	18	2-3%	3:30 p.m. Gasoline odor, gave John
			Dixon the reading.
	19	2%	Gasoline odor.
	20	0%	
	91	0%	
	90	0%	
	36	0%	
	15	0%	Fremont.

9-26-97 Friday

This morning Larry Childress, who owns the building at 1610 E. Sunshine, called City Hall this morning to say that he was getting odors back in his building. This message was relayed to

Randy Lyman. Randy left a message with Alan Reinkemeyer about this.

10:15 a.m. - 11:00 a.m. (K.C.) 9 miles
This morning I checked the manholes on Sunshine and Fremont and got the following results:

Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	12	0%	
	14	0%	Sunshine.
	15	0%	Sunshine.
	16	0%	Faint gasoline odor.
	17	2.5 %	Gasoline odor.
	18	9-10%	10:35 a.m. Gasoline odor. Gave
			reading to the cashier at the Total
			Station.
	19	0%	Sewer odor.
	20	0%	
	91	0%	
	90	0%	
	36	0%	
	15	0%	Fremont.
T 1 1 1		The state of the s	

I had a voice message from Alan Reinkemeyer at 11:08 a.m. about this situation. He said they were not able to seal Total's service line and the sewer main connection completely. This has resulted in groundwater coming up under the service connection from Total into the main and it can be seen on the video that was taken of it (he has a copy). Alan also mentioned possibly having the City excavate out the connection and seal it. He also left a voice message with Wayne Latimer about this. Randy and I talked with Wayne and he thought it would be better if Total's contractor handled the excavation, sealing, etc. He left a voice message with Alan Reinkemeyer.

At 1:35 p.m. I returned Alan Reinkemeyer's call. He said they are working on getting a cleanup started at this site. We discussed some of the problems with excavating along the sewer line. He asked if we could get a TV camera down Total's private sewer line to check it. He also mentioned having a meeting with some of people from DNR's underground storage tank program, Total's contractors and the City to see what solutions we could come up with.

On Friday afternoon, I checked the manholes on Sunshine and got following readings:

Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	12	0%	
	14	0%	
	15	0%	Faint gasoline odor?
	16	0%	Faint gasoline odor.
	17	0-1%	Faint gasoline odor.
	18	3-5%	2:15 p.m. Gasoline odor.

Map Manhole Reading (L.E.L.) Comments
P-20 SE 19 0% Sewer odor.
20 0%

I gave John Dixon, of Total, the meter reading when I was there. He said they came by early this morning to pump out the groundwater. He thought they were only pumping once a day now.

3:00 p.m.- 3:45 p.m.

(K.C. & B.C.)

8 miles

Bob and I put the water meter back on the fire hydrant on Kentwood in case the readings in the manholes on Sunshine Street come back up again.

9-27-97 Saturday

7:10 p.m. - 7:25 p.m.

(K.C.)

On Saturday evening, I checked the following manholes:

Map Manhole Reading (L.E.L.) Comments
P-20 SE 18 3-4% Gasoline odor. Gave reading to cashier in Total.

17 0%
19 0%

9-28-97 Sunday

3:35 p.m. - 3:50 p.m. (K.C.)

On Sunday afternoon, I checked the following manholes:

Map Manhole Reading (L.E.L.) Comments
P-20 SE 18 0% Gave the cashier in Total the reading.
17 0%

9-29-97 Monday

9:55 a.m. - 10:30 a.m. (K.C.)

On Monday morning I closed the covers on the following manholes(wye map P-20 SE): MH 15 (Fremont); MH 36; MH 90 and MH 91. It was very breezy.

1:10 p.m. - 2:15 p.m.

(K.C.)

8 miles

9 miles

On Monday afternoon, I checked the following manholes:

Map Manhole Reading (L.E.L.) Comments P-20 SE 12 0% 14 0%

Map P-20 SE	Manhole 15		Reading (L.E.L.) 0%	Comments Sunshine.
	16		0%	Sewer odor.
	17		0%	Sewer odor.
	18	0%		1:40 p.m. Sewer odor. Gave Jeffrey,
	19		0%	the cashier in Total, the reading.
	20		0%	
	91		0%	
	90		0%	*
	36		0%	
	15		0%	Fremont.
	14		0%	Fremont.

9-30-97 Tuesday

2:10 p.m. - 3:00 p.m.

(K.C.)

11 miles

On Tuesday afternoon, I checked the following manholes on Sunshine:

1996 (679)		oked the following maintoles	on building.
Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	12	0%	
	14	0%	
	15	0%	
	16	0%	
	17	0%	
	18	0%	Sunbelt was leaving as I arrived.
			Faint gasoline odor. Gave Jeffrey at
			Total the reading.
	19	0%	č
	20	0%	

After checking MH's 19 and 20, I walked back to the Total Station and the two barricades on MH 18 were lying flattened out in the street. I set them up again. On the way home from work, I passed by the Total Station and the barricades were down again. I replaced one of them with the barricade that was over Total's sampling manhole.

#### 10-1-97 Wednesday

1:00 p.m.-2:15 p.m.

(K.C.)

12 miles

On Wednesday afternoon, I checked the following manholes on Sunshine:

Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	12	0%	
	14	0%	

Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	15	0%	Sewer odor.
	16	0%	Sewer odor.
	17	0%	
	18	5%	Gasoline odor. Gave reading to
			cashier at Total.
	19	0%	
	20	0%	

While I was at the Total Station, I talked Kevin Arnold, from NB Envrionmental, Inc. (Atlanta, Ga.), who was there with a tanker trunk. He said they are doing water and vapor extraction at the station today and tomorrow. They started today at 8:45 a.m. and had pumped about 1000 gallons. He thought their activity might have caused the reading in the manhole today. I checked the fire hose on Kentwood and some had disconnected the section taht went across the driveway to the Plaza Towers Shopping Center. I then checked the following manholes on Fremont:

Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	MH 90	0%	
	MH 91	0%	
	MH 36	0%	
	MH 15	0%	
	MH 14	0%	

10-2-97 Thursday

1:10 p.m. - 2:10 p.m. (K.C.)

8 miles

On Thursday afternoon, I checked the following manholes:

Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	12	0%	
	14	0%	
	15	0%	Sewer odor.
	16	0%	
	17	0%	
	18	0%	1:40 p.m. Gave John Dixon the
			reading.
	19	0%	
	20	0%	

I talked with Kevin Arnold, from NB Environmental and he said they had pumped about 1000 gallons today. Some product showed up in the well they were pumping today, so he thought they might pump again tomorrow.

10-3-97 Friday

1:10 p.m. - 2:35 p.m.

(K.C.)

12 miles

On Friday afternoon, I checked the following manholes:

26 550	redificon, i checked the	ronowing maimores.	
Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	14	0%	Fremont.
	15	0%	Fremont. Removed barricade.
	36	0%	Removed barricade.
	90	0%	Removed barricade and cones.
	91	0%	Removed barricade.
	12	0%	
	14	0%	Sunshine.
	15	0%	Sunshine. Sewer odor.
	16	0%	Sewer odor.
	17	0%	
	18	0%	2:00 p.m. Faint gasoline odor? Gave
			John Dixon the reading.
	19	0%	and the same of th
	20	0%	Barricade not on top of open manhole, readjusted it.
	A CANAL OF AGREEMENT TO AS ASSET		

I talked to Kevin Arnold while at the Total Station. He said they pumped about 1667 gallons of water today, but didn't get any visible product on it. I also checked the CU water meter on Kentwood and it looked okay. I left a couple of the barricades from Fremont Street here in case they are needed later.

10-6-97 Monday

9:15 a.m. - 9:45 a.m.

(K.C.)

2 miles

On Monday morning I checked the following manholes on Sunshine:

on tronady morning i checked the following maintoles on building.			
Manhole	Reading (L.E.L.)	Comments	
12	0%		
14	0%		
15	0%	Closed cover.	
16	0%	Closed cover.	
17	0%		
18	0%	9:40 a.m. Gave reading to cashier.	
19	0%	Sewer odor.	
20	0%	Barricade lying flat in street. Closed manhole cover and replaced barricade over it.	
	Manhole 12 14 15 16 17 18	Manhole Reading (L.E.L.)  12 0%  14 0%  15 0%  16 0%  17 0%  18 0%  19 0%	

2:15 p.m. - 3:05 p.m.

(K.C.)

11 miles

On Monday afternoon I checked the following manholes on Sunshine:

		the reme will mainless (	on building.
Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	12	0%	
	14	0%	
	15	0%	
	16	0%	
	17	0%	
	18	0%	2:40 p.m. Sewer odor. Gave Jeffrey
			the reading.
	19	0%	
	20	0%	

The CU water meter on Kentwood looked okay.

10-7-97 Tuesday

9:20 a.m. - 9:50 a.m.

(K.C.)

2 miles

This morning I checked the following manholes on Sunshine:

Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	12	0%	
	14	0%	
	15	0%	
	16	0%	
	17	0%	
	18	0%	9:35 a.m. Sewer odor. Gave John
			Dixon the meter reading.
	19	0%	S
	20	0%	

Sunbelt was pumping the recovery well when I arrived at the Total Station. Don Hatch said he pumped about 1600 gallons of water yesterday and about 10 gallons of gasoline out of the well.

10-8-97 Wednesday

1:45 p.m. - 2:35 p.m.

(K. C.)

11 miles

It rained on Wednesday, and in the afternoon I checked the following manholes on Sunshine Street:

Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	12	0%	
	14	0%	
	15	0%	
	16	0%	

Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	17	0%	Sewer odor. Taking water.
	18	0%	Gave John Dixon the reading.
	19	0%	The manhole was taking some water.
	20		Under water, didn't sniff.
3:00 p.m	3:45 p.m.	(GP & K C )	10 miles

10 miles

Gene and I put sandbags around manholes 17 and 19 to keep the rainwater out.

10-9-97 Thursday

2:10 p.m. - 3:30 p.m.

(K.C.)

10 miles

This afternoon I checked the following manholes on Sunshine:

Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	12	0%	
	14	0%	
	15	0%	
	16	0%	
	17	0%	Sewer odor.
	18	0%	Sewer odor. Gave John Dixon the
	10	007	reading.
	19	0%	
	20		Didn't sniff, MH covered with mud.

10-10-97 Friday

2:15 p.m. - 3:30 p.m. (K.C.)

12 miles

This afternoon I checked the following manholes:

Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	12	0%	
	14	0%	Sunshine.
	15	0%	Sunshine.
	16	0-1%	Opened cover.
	17	0%	Faint gasoline odor.
	18	0%	Faint gasoline odor, gave Jeffrey the reading. He didn't know if they had pumped today yet.
	19	0%	Sewer odor.
	20	0%	Water meter on Kentwood looks OK.
	91	0%	
	90	0%	

Map P20-SE	Manhole 36 15	Reading (L.E.L.) 0% 0% 0%	Comments Fremont. Fremont.
10-11-97	Saturday		
5:20 p.m 5:	35 p.m.		
This afternoon Map P-20 SE	n, I checked the follow Manhole 16 17 18	wing manholes on Suns Reading (L.E.L.) 0% 0-1% 2-3%	hine: Comments  Faint gasoline odor. Strong gasoline odor in recovery well area. Gave cashier the reading.
10-12-97	Sunday		
4:05 p.m 4:	20 p.m. (K.C	.)	
Map P-20 SE	Manhole 17 18	Reading (L.E.L.) 0% 0%	Comments  Gave cashier the reading, strong gasoline smell by the wells.
10-13-97	Monday		
9:50 a.m 10	:20 a.m. (K.C	)	4 miles
This morning Map P-20 SE	I checked the following Manhole 12 14 15 16 17 18	ng manholes on Sunshi Reading (L.E.L.) 0% 0% 0% 0% 0% 0%	ne: Comments  10:15 a.m. Gave Jeffrey the reading. Sunbelt was pumping, no apparent gasoline on the water. Floor of manhole had some spots with rainbows on them.
	19 20	0% 0%	Barricade was lying on parkway. I

removed it.	Meter on Kentwood
OK.	

10 1	1 07	3.6 1
10-1	4-97	Monday

3:05 p.m. - 3:50 p.m. (K.C.)

9 miles

This afternoon I checked the following manholes on Sunshine:

Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	15	0%	
	16	0%	
	17	0%	Faint gasoline odor.
	18	0%	Faint gasoline odor. Gave cashier the reading.
	19	0%	the reading.

## 10-16-97 Wednesday

9:15 a.m. - 10:05 a.m. (K.C.)

9 miles

Map P-20 SE	Manhole 12 14 15	Reading (L.E.L.) 0% 0% 0% 0%	Comments
	17 18	0% 2-3% 0%	Faint gasoline odor. 9:45 a.m. Gasoline odor, gave John Dixon the reading.
	20	0%	

### 10-17-97 Thursday

9:55 a.m. - 10:40 a.m. (K.C.)

10 miles

Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	12	0%	
	14	0%	
	15	0%	
	16	0%	
	17	0%	Faint gasoline odor.
	18	0%	10:15 a.m. Gasoline odor. Talked to
			Connie Booth, she said they had just
			pumped.

Map P20-SE	Manhole 19 20	Reading (L.E.L.) 0% 0%	Comments  Water meter installation on Kentwood looked okay.	
10-20-97	Monday			
8:45 a.m 9:	30 a.m. (F	ζ.C.)	11 miles	
Map P-20 SE	Manhole 12 14 15 16 17	Reading (L.E.L.) 0% 0% 0% 0% 0% 0% 0%	Closed cover. No odor. Faint gasoline odor. 9:07 a.m. Gasoline odor by wells. Gave John Dixon the reading. Sunbelt was pumping. Said they hadn't seen any obvious product on the water.	
	19 20	0%	No odor. Closed cover, removed sandbag. Water meter installation on	
			Kentwood okay.	
1:40 p.m 2:	30 p.m. (F	C.C.)	11 miles	
Map P-20 SE	Manhole 16 17 18 19	Reading (L.E.L.) 0% 0% 0% 0-1%	Comments  Sewer odor. Sewer odor. Opened cover to check reading. Left open. Gasoline odor?	
10-21-97	Tuesday			
10:15 a.m 1	0:45 a.m.	(K.C.)	10 miles	
Map P-20 SE	Manhole 15 16 17 18	Reading (L.E.L.) 0% 0% 0% 0% 0% 0%	Comments  Sewer odor.  Gave reading to Nancy, the cashier.	
Rained a little early this morning.				

# 10-23-97 Thursday

1:40 p.m 2:	25 p.m.	(K.C.)	11 miles
Map P-20 SE	Manhole 12 14 15 16	Reading (L.E.L.) 0% 0% 0% 0% 0%	Comments
	18	0%	Sewer odor. I talked to Don Hatch, of Sunbelt. He said they won't be pumping anymore. Put a sandbag back on the MH, as it is supposed to rain tonight.
10-24-97	Friday		
12:45 p.m 1	:30 p.m.	(K.C.)	11 miles
Map P-20 SE	Manhole 15 16 17 18 19	Reading (L.E.L.) 0% 0% 0% 0% 0%	1:10 p.m. Gave cashier the reading. Fire hose installation on Kentwood okay. Replaced barricade over hose and picked up a couple of cones out of the street.
10-25-97	Saturday		
5:55 p.m 6:	10 p.m. (K.C.)		
Map P-20 SE	Manhole 18	Reading (L.E.L.) 0-1%	Comments Slight gasoline odor. Put barricade back up over MH.
	19 17	0% 0%	Rearranged sandbag.

10-27-97	Monday		
1:15 p.m 2:	00 p.m. (	K.C.)	9 miles
Map P-20 SE	Manhole 15 16 17	Reading (L.E.L.) 0% 0% 0%	Comments
	18	0%	1:35 p.m. Faint gasoline odor. Gave the reading to Jeffrey, the cashier.
	19	0%	Fire hose installation on Kentwood okay.
10-31-97	Friday		
9:45 a.m 10	):30 a.m. (	K.C.)	9 miles
Map P-20 SE	Manhole 15 16	Reading (L.E.L.) 0% 0%	Comments
	17 18	0% 2-3%	Faint gasoline odor? 10:10 a. m. Faint gasoline odor, gave cashier the reading.
	19	0%	Fire hydrant installation on Kentwood okay.
11-03-97	Monday		
1:15 p.m 2:	15 p.m. (	K.C.)	10 miles
Map P-20 SE	Manhole 15 16 17	Reading (L.E.L.) 0% 0% 0%	Comments Removed barricade. Removed barricade. Sewer odor.

Removed the water meter from Kentwood. Reading was 022939<u>0</u>.

0%

0%

Gave reading to Jeffrey, the cashier.

18

19

11-05-97	Wednesday
11-05-97	wednes

1:30 p.m 2	:45 p.m.	(K.C.)	10 miles
Map P-20 SE	Manhole 15 16	Reading (L.E.L.) 0% 0%	Comments
	17	0%	Sewer odor.
	18	0%	Readjusted barricades. Gave reading to Nancy, the cashier.
	19	0%	

Removed three of the barricades and a section of fire hose on Kentwood Street.

11-07-97	Friday

11-07-97	Friday			
1:20 p.m 2:05 p.m.		(K.C.)		11 miles
Map P-20 SE	Manhole 16 17 18		Reading (L.E.L.) 0% 0% 0%	Comments Sewer odor.
	19		0%	Sewer odor.
11-14-97	Friday			
1:10 p.m 1:45 p.m.		(K.C.)		9 miles
Map P-20 SE	Manhole 16 18 19		Reading (L.E.L.) 0% 0% 0% 0%	Comments 1:25 p.m.
11-21-97	Friday			
10:55 a.m 11:40 a.m.		(K.C.)	)	10 miles
Map P-20 SE	Manhole 16		Reading (L.E.L.) 0%	Comments

Map	Manhole	Reading (L.E.L.)	Comments
P-20 SE	16	0%	
	17	0%	
	18	0%	11:00 a.m. Gave reading to John
			Dixon.
	19	0%	

11-24-97 Monday

Randy Lyman and Bob Corson closed the lids on manholes 17,18, and 19 and removed the barricades.

11-25-97 Tuesday

11:25 a.m. - 12:00 p.m.

(K.C.)

10 miles

Map

Manhole

Reading (L.E.L.)

Comments

Dixon.

P-20 SE

17 18

0% 1-2%

11:35 a.m. Gave reading to John

19

0%

11-26-97 Wednesday

1:20 p.m. - 2:00 p.m.

(K.C.)

11 miles

Map

Manhole

Reading (L.E.L.)

P-20 SE

17

0%

Comments

1:35 p.m.

18 19 1% 0%

11-29-97 Saturday

5:10 p.m. - 5:20 p.m.

Map

Manhole

Reading (L.E.L.)

Comments

P-20 SE

18

0%

12-03-97

Wednesday

12:50 p.m. - 1:45 p.m.

(K.C.)

10 miles

Map

Manhole

Reading (L.E.L.)

Comments

P-20 SE

17

0%

Loaded up fire hose that was lying

near this MH.

18

0%

19

0%

12-12-97	Friday			
2:55 p.m 3:30 p.m.		(K.C.)		9 miles
Map P-20 SE	Manhole 17 18		Reading (L.E.L.) 0% 0%	Comments
12-19-97	Friday			
9:05 a.m 9:45 a.m.		(K.C.)	) ·	10 miles
Map P-20 SE	Manhole 17 18		Reading (L.E.L.) 0% 0%	Comments
12-22-97	Monday			
3:20 p.m 4:00 p.m.		(K.C.)		10 miles
Map P-20 SE It rained Satur	Manhole 17 18 rday and Sunda	ıy.	Reading (L.E.L.) 0% 0%	Comments
12-31-97 Wednesday				
11:15 a.m 12:00 p.m.		(K.C.)		9 miles
Map P-20 SE	Manhole 17 18	,	Reading (L.E.L.) 0% 0%	Comments  Picked up the firehose on Kentwood.
01-05-98	Monday			
2:15 p.m 2:55 p.m.		(K.C.)		12 miles
Map P-20 SE	Manhole 17 18 19		Reading (L.E.L.) 0% 0% 0%	Comments
Pained Sunday evening and early Monday marries				

Rained Sunday evening and early Monday morning.

01-06-98 Tuesday

9:10 a.m. - 9:30 a.m.

(K.C.)

5 miles

Map

Manhole

Reading (L.E.L.)

Comments

P-20 SE

18

0%

01-08-98 Thursday

10:00 a.m. - 10:45 a.m.

(K.C.)

10 miles

Map

Manhole

Reading (L.E.L.)

Comments

P-20 SE

17

0%

18

0%

It snowed today.

01-13-98

Tuesday

2:10 p.m. - 2:30 p.m.

(K.C.)

5 miles

Map

Manhole

Reading (L.E.L.)

Comments

P-20 SE

18

02-11-98

Wednesday

9:45 a.m. - 10:15 a.m.

(K.C.)

6 miles

Map

Manhole

Reading (L.E.L.)

Comments

P-20 SE

17

0%

0%

18

0%

Closed sampling MH at the Total

Station.

It rained over 2" before and after midnight.

02-12-98

Thursday

9:05 a.m. - 9:30 a.m.

(K.C.)

8 miles

Map

Manhole

Reading (L.E.L.)

Comments

P-20 SE

17

0%

18

0%

03-19-98 Thursday

1:50 p.m. - 2:30 p.m.

(K.C.)

9 miles

Map

Manhole

Reading (L.E.L.)

Comments

P-20 SE

17

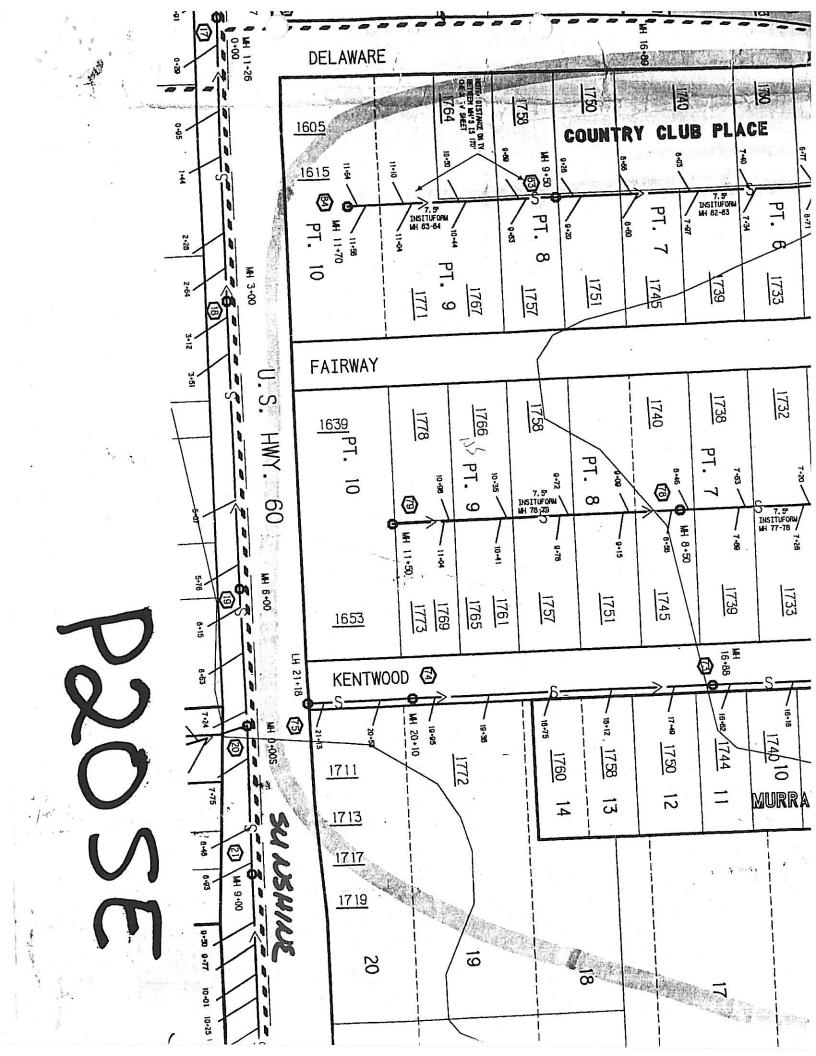
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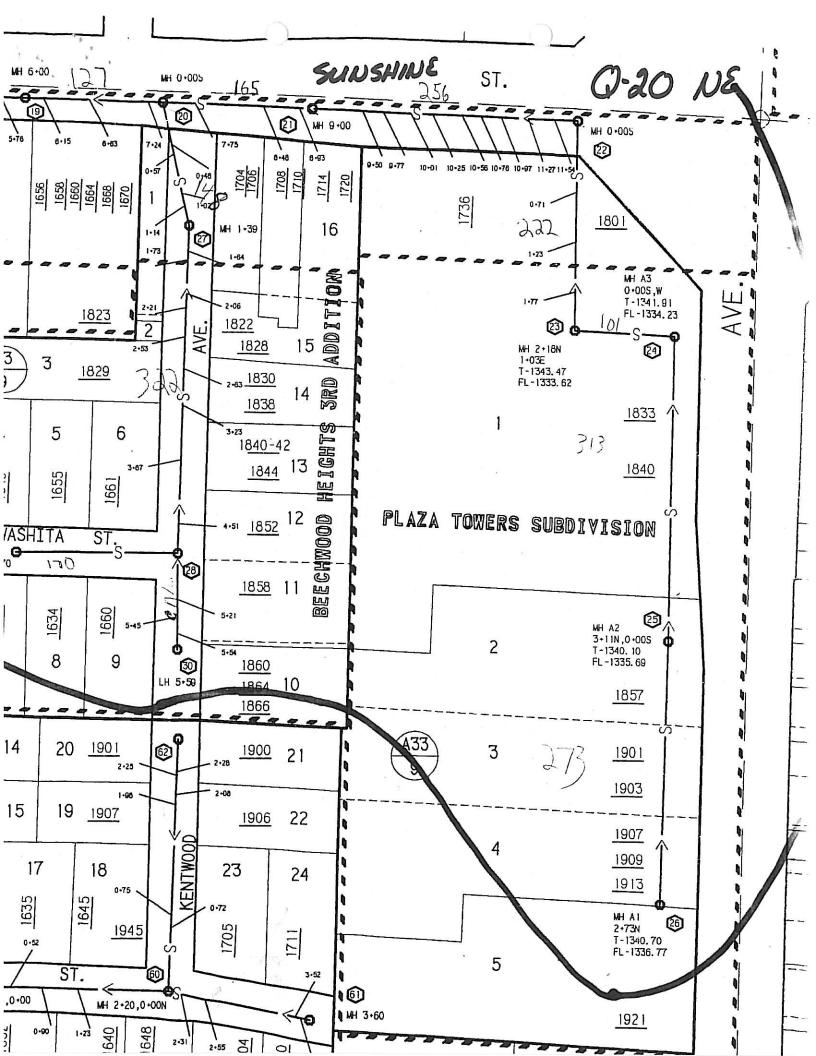
18

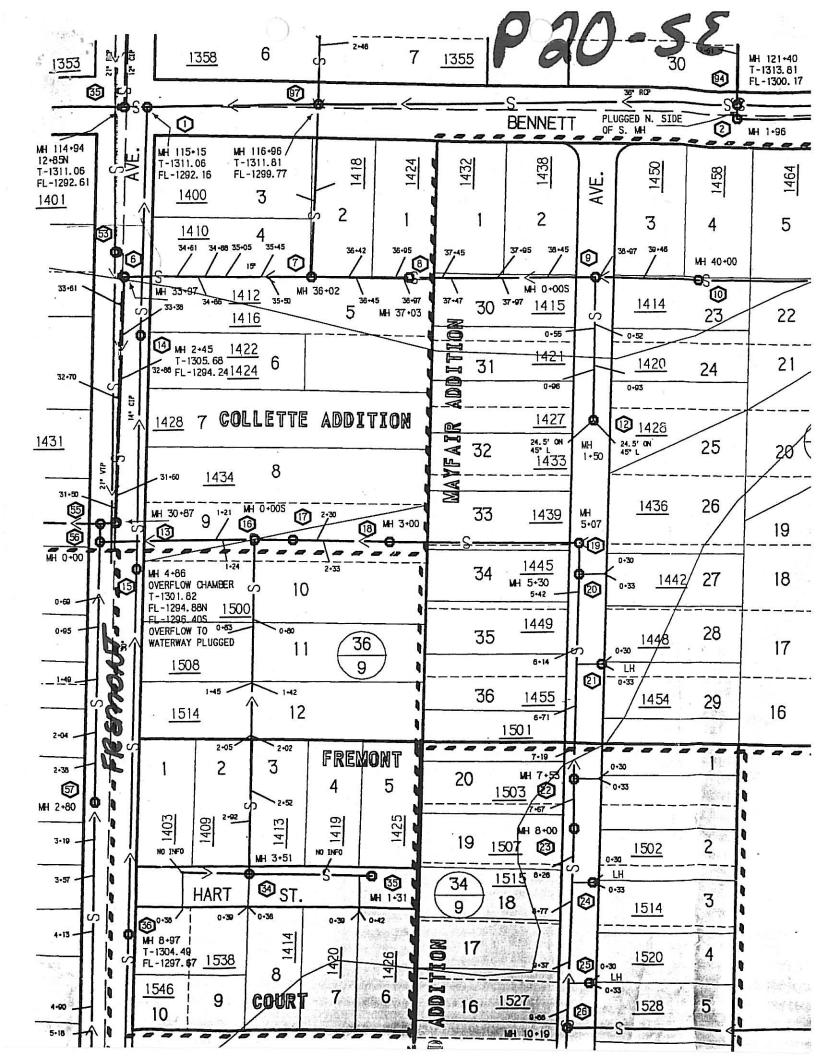
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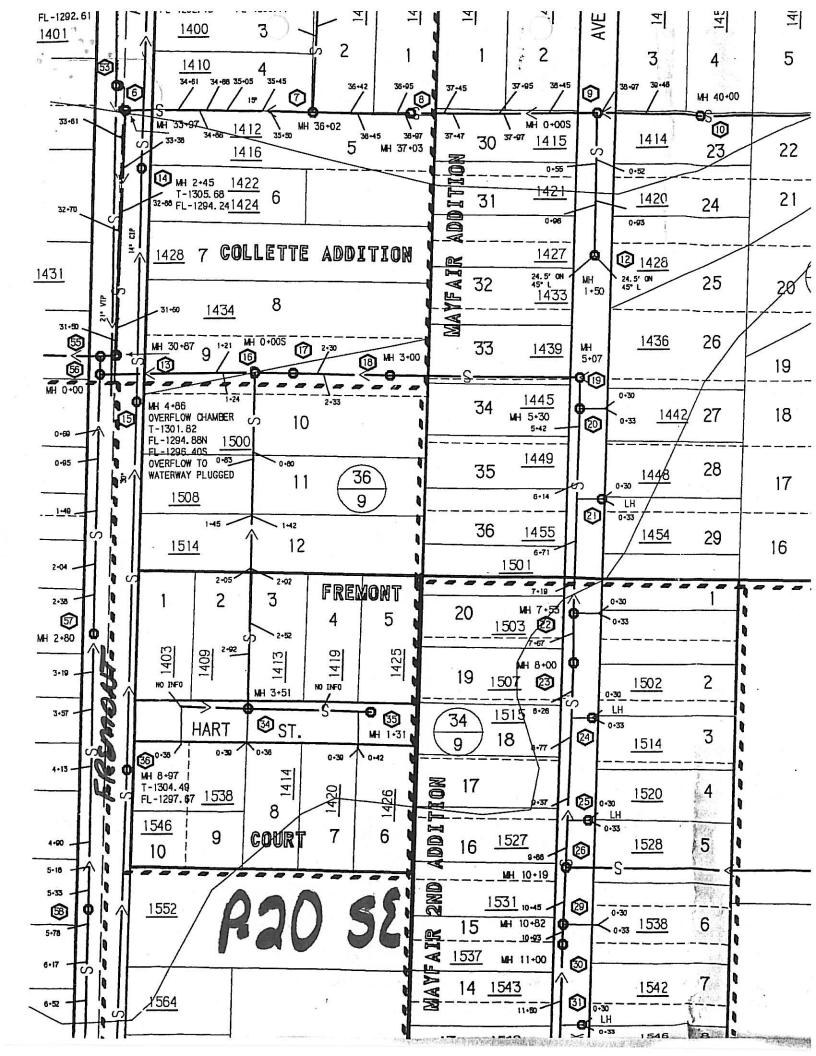
Karen Chandler

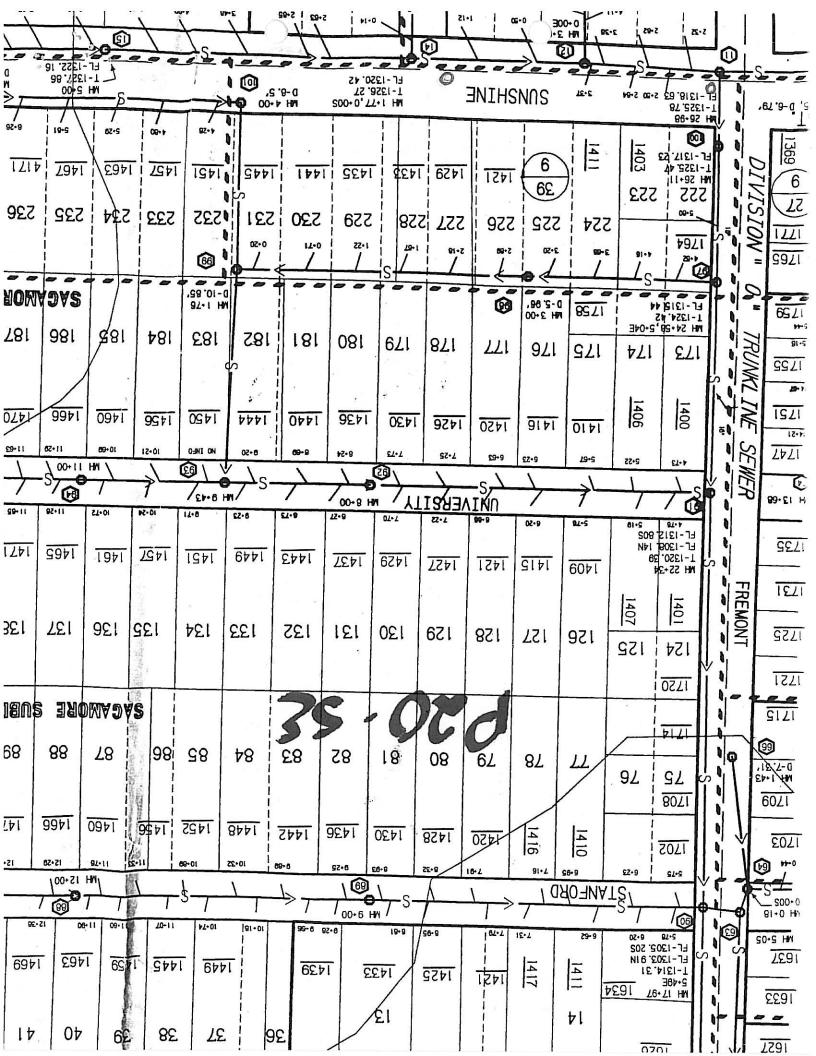
**Industrial Pretreatment Section** 

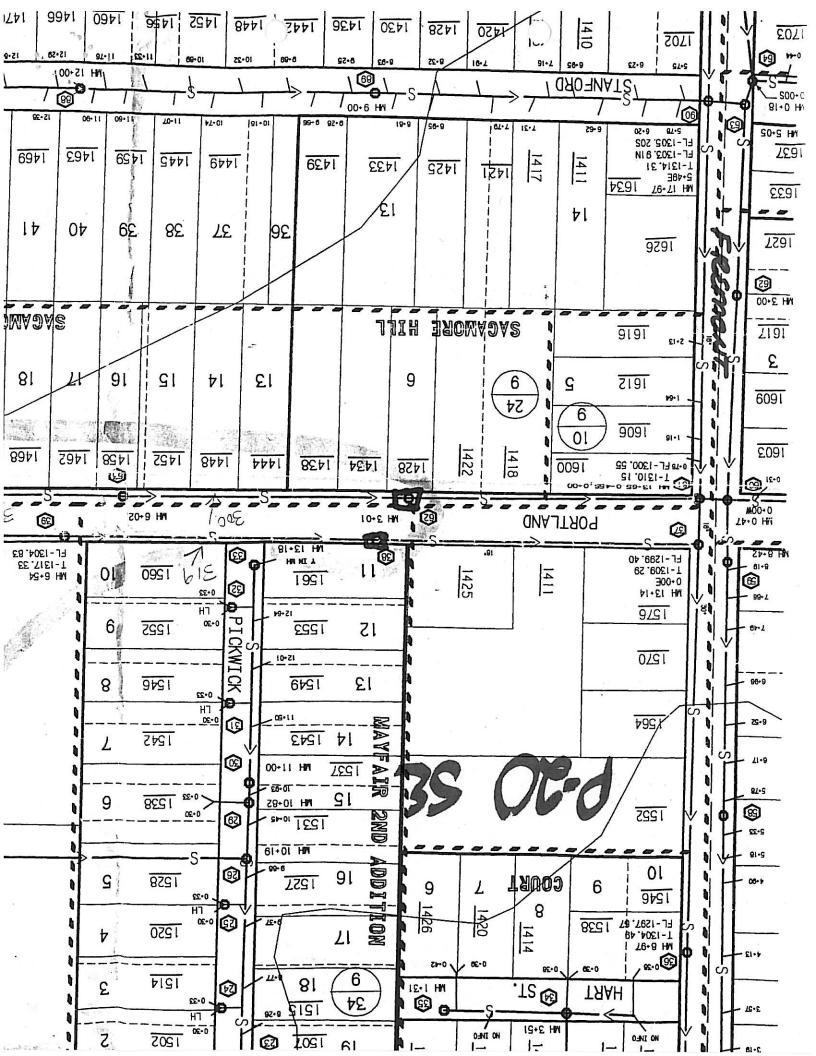












B. Markette B. Committee the state of MH 22+61 21.42 19÷51 (B) SUNSHINE -\_ © <sup>™</sup> 20+ 18 NATIONAL 9: • I H ¥1 0+54 -25 1.17 AOF 4 ဖ MIVERSIT' 1.65 ଯ 2-13 <u>5</u> 199 200 2.77 0-9.59° (1226 3.25 <u>7</u> 3.27 **(a)**  $\Im$ MH 3+50 S. 以 3-87 4.26 4.28 ė OF MH 150'E -8 5.20 <del>2</del>8 5-65 SAGAMORE SAGAMORE 6.24 MH 7.00 0-13, D-10. 6' 6:70 <u>16</u> 1:2 i dans OISIAIDEMS 7-21 DISID 7.81 7-84 

